

JANUARY 1, 1992, VOL. 69, NO. 1

CORONARY ARTERY DISEASE

- 1**
Assessment of Global and Regional Left Ventricular Performance at Rest and During Exercise After Thrombolytic Therapy for Acute Myocardial Infarction: Results of the Thrombolysis in Myocardial Infarction (TIMI) II Study
Barry L. Zaret, Frans J. Th. Wackers, Michael L. Terrin, Richard Ross, Melvin Weiss, James Slater, John Morrison, Robert C. Bourge, Eugene Passamani, Genell Knatterud, and Eugene Braunwald
- 10**
Influence of Collateral Filling of the Occluded Infarct-Related Coronary Artery on Prognosis After Acute Myocardial Infarction
James D. Boehrner, Richard A. Lange, John E. Willard, and L. David Hillis
- 13**
Predicting Arrhythmic Events After Acute Myocardial Infarction Using the Signal-Averaged Electrocardiogram
Jonathan S. Steinberg, Arlene Regan, Robert R. Sciacca, J. Thomas Bigger, Jr., and Joseph L. Fleiss, with the technical assistance of Donald E. Salvatore, Michael Fosina, and Linda M. Rolnitzky
- 22**
Technetium-99m Sestamibi Myocardial Imaging at Rest for Assessment of Myocardial Infarction and First-Pass Ejection Fraction
Charles A. Boucher, Frans J. Th. Wackers, Barry L. Zaret, Ismael G. Mena, and the Multicenter Cardiolite Study Group
- 28**
A Comparison Between Lovastatin and Gemfibrozil in the Treatment of Primary Hypercholesterolemia
Ralph B. D'Agostino, William B. Kannel, Miganush N. Stepanians, and LeiLanie C. D'Agostino
- 35**
Blood Pressure, Plasma Atrial Natriuretic Peptide and Catecholamines During Rapid Ventricular Pacing and Effects of Beta-Adrenergic Blockade in Coronary Artery Disease
Keijo J. Peuhkurinen, Heikki V. Huikuri, Heikki Ruskoaho, and Juha T. Takkunen
- 40**
Physiologic Responses to Recumbent Versus Upright Cycle Ergometry, and Implications for Exercise Prescription in Patients with Coronary Artery Disease
Scott C. Bonzheim, Barry A. Franklin, Christopher DeWitt, Charles Marks, Brian Goslin, Robert Jarski, and Sherry Dann
- 45**
Prognostic Significance of Exercise Thallium-201 Testing in Patients Aged ≥ 70 Years with Known or Suspected Coronary Artery Disease
Thomas C. Hilton, Leslee J. Shaw, Bernard R. Chaitman, Karen S. Stocke, Henry M. Goodgold, and D. Douglas Miller

- 51**
Feasibility of High-Dose Dipyridamole-Magnetic Resonance Imaging for Detection of Coronary Artery Disease and Comparison with Coronary Angiography
Frank M. Baer, Kamilla Smolarz, Markus Jungehülsing, Peter Theissen, Udo Sechtem, Harald Schicha, and Hans H. Hilger
 - 57**
Intracoronary Urokinase as an Adjunct to Percutaneous Transluminal Coronary Angioplasty in Patients with Complex Coronary Narrowings or Angioplasty-Induced Complications
Evelyne Goudreau, Germano DiSciascio, George W. Vetrovec, Youssef Chami, Ravinder Kohli, Mark Warner, Nagui Sabri, and Michael J. Cowley
 - 63**
Peripheral Vascular Complications After Conventional and Complex Percutaneous Coronary Interventional Procedures
David W. M. Muller, Kenath J. Shamir, Stephen G. Ellis, and Eric J. Topol
 - 69**
Results of Coronary Angioplasty of Chronic Total Occlusions (the National Heart, Lung, and Blood Institute 1985-1986 Percutaneous Transluminal Angioplasty Registry)
Nicholas A. Ruocco, Jr., Michael E. Ring, Richard Holubkov, Alice K. Jacobs, Katherine M. Detre, David P. Faxon, and the Co-Investigators of the National Heart, Lung, and Blood Institute Percutaneous Transluminal Coronary Angioplasty Registry
 - 77**
Establishing Comprehensive, Quantitative Criteria for Detection of Restenosis and Remodeling After Percutaneous Transluminal Coronary Angioplasty
Nicoletta B. de Cesare, Paula R. Williamson, Noel B. Moore, Scott F. DeBoe, and G. B. John Mancini
 - 84**
Comparison of Ischemic and Physiologic Responses During Exercise Tests in Men Using the Standard and Modified Bruce Protocols
Kyle J. McInnis, Gary J. Balady, Donald A. Weiner, and Thomas J. Ryan
 - 90**
Comparison Between Technetium-99m-Tebroxime and Thallium-201 Dipyridamole Planar Myocardial Perfusion Imaging in Detection of Coronary Artery Disease
Chantal Labonté, Raymond Taillefer, Raymond Lambert, Fadi Basile, Tuan TonThat, Michel Jarry, and Jean Léveillé
- ARRHYTHMIAS AND CONDUCTION DISTURBANCES**
- 97**
Exercise Testing and Thallium-201 Emission Computed Tomography in Patients with Intraventricular Conduction Disturbances
Kei Tawarahara, Chinori Kurata, Takahisa Taguchi, Akira Kobayashi, and Noboru Yamazaki

CONGESTIVE HEART FAILURE

103

Effects of Enalapril on Long-Term Mortality in Severe Congestive Heart Failure

John Kjekshus, Karl Swedberg, and Steve Snapinn, for the CONSENSUS Trial Group

VALVULAR HEART DISEASE

108

Left Ventricular Filling and Ventricular Diastolic Performance After Percutaneous Balloon Mitral Valvotomy

J. Kevin Harrison, Charles J. Davidson, James B. Hermiller, Michael B. Harding, J. Douglass Hanemann, Jack T. Cusma, Katherine B. Kisslo, and Thomas M. Bashore

MISCELLANEOUS

113

Cardiac Function After Domino-Donor Heart Transplantation

Catherine M. Kells, Sara Marshall, Mordecai Kramer, Sharon A. Hunt, James Theodore, Hannah A. Valentine, and Vaughn A. Starnes

117

Predictive Factors of Effectiveness of Streptokinase in Deep Venous Thrombosis

Claude Théry, Jean Jacques Bauchart, Martine Lesenne, Philippe Asseman, Jean-Gabriel Flajollet, Raphaël Legghe, and Philippe Marache

123

Cardiovascular Factors Influencing Survival in End-Stage Renal Disease Treated by Continuous Ambulatory Peritoneal Dialysis

Jürgen Höting and Georg Schütterle

129

Left Ventricular Function in Myasthenia Gravis

Karl-Arne Johannessen, Åse Mygland, Nils Erik Gilhus, Johan Aarli, and Harald Vik-Mo

BRIEF REPORTS

133

Intravascular Ultrasound Imaging of Saphenous Vein Graft Stenosis

Suresh P. Jain, Gary S. Roubin, Navin C. Nanda, Larry S. Dean, Subodh K. Agrawal, and Luiz Pinheiro

137

Prognostic Significance of Silent Ischemia in Elderly Patients with Peripheral Arterial Disease With and Without Previous Myocardial Infarction

Wilbert S. Aronow, Chul Ahn, Anthony D. Mercado, and Stanley Epstein

READERS' COMMENTS

140

The Most Prolific Author

John M. Palmisano

Correction

FROM THE EDITOR

141

Some Good Cardiology Books Published in 1991

William C. Roberts

JANUARY 3, 1992, VOL. 69, NO. 2

A SYMPOSIUM:

SAFETY OF THROMBOLYTIC AGENTS

JANUARY 15, 1992, VOL. 69, NO. 3

CORONARY ARTERY DISEASE

145

Long-Term Survival of Emergency Department Patients with Acute Chest Pain

Thomas H. Lee, Henry H. Ting, Jonathan B. Shammash, Jane R. Soukup, and Lee Goldman

152

Holter Recording of Ventricular Arrhythmias During Intravenous Thrombolysis for Acute Myocardial Infarction

Virginie Gressin, Yves Louvard, Michel Pezzano, and Hervé Lardoux

160

Psychosocial Adjustment of Patients Arriving Early at the Emergency Department After Acute Myocardial Infarction

Robert M. Carney, Kenneth E. Freedland, Karen A. Clark, Judith A. Skala, Laurie J. Smith, Alan Delamater, and Allan S. Jaffe

163

Effect of Timolol on Cardiopulmonary Exercise Performance in Men After Myocardial Infarction

Ståle Barvik, Kenneth Dickstein, Torbjørn Aarsland and Harald Vik-Mo

169

Effects of Acute K-Strophanthidin Administration on Left Ventricular Relaxation and Filling Phase in Coronary Artery Disease

Roberto Bolognesi, Francesco Cucchini, Antonio Javernaro, Roberto Zeppellini, Carlo Manca, and Odoardo Visoli

173

Tissue Plasminogen Activator Using a Rapid-Infusion Low-Dose Regimen for Unstable Angina

Hemant Chaudhary, Ian Crozier, Andrew Hamer, Stephan Foy, Teresa Shirlaw, and Hamid Ikram

176

Effects of Estrogen Replacement Therapy on Serum Lipid Values and Angiographically Defined Coronary Artery Disease in Postmenopausal Women

Mun K. Hong, Philip A. Romm, Kathleen Reagan, Curtis E. Green, and Charles E. Rackley

179

Patterns of Referral and Recovery in Women and Men Undergoing Coronary Artery Bypass Grafting

Kathleen B. King, Patricia C. Clark, and George L. Hicks, Jr.

183**Comparison Between Thallium-201 and Technetium-99m Methoxyisobutyl Isonitrile Defect Size in Single-Photon Emission Computed Tomography at Rest, Exercise and Redistribution in Coronary Artery Disease**

Jean C. Maublant, Xavier Marcaggi, Jean-René Lusson, Jean-Yves Boire, Jean-Christophe Cauvin, Pierre Jacob, Annie Veyre, and Jean Cassagnes

188**Effectiveness of Decremental Diameter Balloon Catheters (Tapered Balloon)**

Vidya S. Banka, Howard A. Baker III, Dwarka N. Vemuri, Gerardo Voci, and Alan R. Maniet

194**Postangioplasty Restenosis Rate Between Segments of the Major Coronary Arteries**

Walter R. M. Hermans, Benno J. Rensing, Johannes C. Kelder, Pim J. de Feyter, and Patrick W. Serruys

ARRHYTHMIAS AND CONDUCTION DISTURBANCES

201**Spectral Analysis of Heart Rate Dynamics in Elderly Persons with Postprandial Hypotension**

Sheila M. Ryan, Ary L. Goldberger, Robin Ruthazer, Joseph Mietus, and Lewis A. Lipsitz

206**Pharmacology of the Class III Antiarrhythmic Agent Sotalolol in Patients with Arrhythmias**

Wilson Wong, Harris N. Pavlou, Ulrika M. Birgersdotter, Daniel E. Hilleman, Syed M. Mohiuddin, and Dan M. Roden

SYSTEMIC HYPERTENSION

213**Epidemiologic Aspects of Isolated Systolic Hypertension and Implications for Future Research**
Christopher A. Silagy and John J. McNeil

219**Morphologic, Hemodynamic and Coronary Perfusion Characteristics in Severe Left Ventricular Hypertrophy Secondary to Systemic Hypertension and Evidence for Nonatherosclerotic Myocardial Ischemia**

Jan Laws Houghton, Albert A. Carr, L. Michael Prisant, Ward B. Rogers, Thomas W. von Dohlen, Nancy C. Flowers, and Martin J. Frank

225**Impact of Left Ventricular Hypertrophy on Blood Pressure Responses to Exercise**

David H. G. Smith, Joel M. Neutel, William F. Graettinger, Jonathan Myers, Victor F. Froelicher, and Michael A. Weber

229**Hemodynamic and Metabolic Effects of Intravenous Captopril in Hypertensive Patients**

Edward D. Frohlich, Mario McLoughlin, and Reinhard Ketelhut

VALVULAR HEART DISEASE

233**Left Ventricular Ejection Performance in Mitral Stenosis, and Effects of Successful Percutaneous Transvenous Mitral Commissurotomy**

Shinya Goto, Shunnosuke Handa, Makoto Akaishi, Sumihisa Abe, and Satoshi Ogawa

238**Findings on Doppler Echocardiography in Asymptomatic Intravenous Heroin Users**

Guillem Pons-Lladó, Francesc Carreras, Xavier Borrás, Josep Cadafalch, Montserrat Fuster, Josep Guardia, and Miquel Casas

CARDIOMYOPATHY

242**Differences in Myocardial Fluoro-18 2-Deoxyglucose Uptake in Young Versus Older Patients with Hypertrophic Cardiomyopathy**

Yutaka Kagaya, Nobumasa Ishide, Daiya Takeyama, Yuka Kanno, Yuriko Yamane, Kunio Shirato, Yukio Maruyama, Masatoshi Itoh, Tatsuo Ido, Taiju Matsuzawa, and Tamotsu Takishima

MISCELLANEOUS

247**Cholinergic Baroreflex Vasodilatation: Defect in Heart Transplant Recipients Due to Denervation of the Ventricular Baroreceptor**

Wolfgang von Scheidt, Michael Böhm, Brigitte Schneider, Gernot Autenrieth, and Erland Erdmann

METHODS

253**Evaluation of Changes in Standard Electrocardiographic QRS Waveforms Recorded from Activity-Compatible Proximal Limb Lead Positions**

Olle Pahlm, Wesley K. Haisty, Jr., Lars Edenbrandt, Nancy B. Wagner, Dorina C. Sevilla, Ronald H. Selvester, and Galen S. Wagner

CARDIOVASCULAR PHARMACOLOGY

258**Rapidity and Duration of Platelet Suppression by Enteric-Coated Aspirin in Healthy Young Men**

Alfredo H. Jimenez, Miguel E. Stubbs, Geoffrey H. Tofler, Kaj Winther, Gordon H. Williams, and James E. Muller

BRIEF REPORTS

263**Late, Out-of-Laboratory, Abrupt Closure After Angiographically Successful Directional Coronary Atherectomy**

Benjamin N. Potkin, Gary S. Mintz, Augusto D. Pichard, Lowell F. Satler, Martin B. Leon, Michael B. Keller, Carolyn J. Ewels, and Kenneth M. Kent

266

Acute Myocardial Infarction and Day of the Week
David R. Thompson, Jurgen E. F. Pohl, and Terence W. Sutton

267

Effectiveness of Indapamide Versus Enalapril as Second-Step Therapy of Systemic Hypertension
Richard Ames, George Griffing, Thomas Marbury, Eugene Miller, James Schoenberger, Bruce Glenn, Vincent Benn, and Donna Wilkinson

271

Efficacy of Once-Daily Felodipine Monotherapy in Systemic Hypertension
Yeo-Shin Hwang, Hsueh-Wei Yen, and Ellick C. K. Wong

274

Transesophageal Echocardiography for Study of Bioprostheses in the Aortic Valve Position
Fausto J. Pinto, Bengt Wranne, and Ingela Schnittger

276

Localization of Mitral Periprosthetic Leaks by Transesophageal Echocardiography
Luigi Meloni, Giorgio M. Aru, Pietro A. Abbruzzese, Gabriele Cardu, Valentino Martelli, and Angelo Cherchi

280

Transesophageal Echocardiographic Detection of Atrial Septal Defect in Adults
Shoa-Lin Lin, Chih-Tai Ting, Tsui-Leih Hsu, Chen-Huan Chen, Mau-Song Chang, Chung-Yin Chen, and Benjamin N. Chiang

CASE REPORT

283

Location, Localization and Surgical Treatment of Cardiac Pheochromocytoma
Dan J. Aravot, Nicholas R. Banner, Abraham M. Cantor, Stergios Theodoropoulos, and Magdi H. Yacoub

READERS' COMMENTS

286

Decreased Heart Rate Variability in Congestive Heart Failure
James E. Carter, Jr.

Comment on the Implantable Defibrillator Backlash
Seymour Furman

FEBRUARY 1, 1992, VOL. 69, NO. 4

CORONARY ARTERY DISEASE

291

Enhancement of the Efficacy of Isosorbide Dinitrate by Captopril in Stable Angina Pectoris
Vladimir I. Metelitsa, Sergey Yu. Martsevich, Marina P. Kozyreva, and Irina D. Slastnikova

297

Identifying Coronary Artery Disease in Women by Heart Rate Adjustment of ST-Segment Depression and Improved Performance of Linear Regression Over Simple Averaging Method with Comparison to Standard Criteria
Peter M. Okin and Paul Kligfield

303

Usefulness of Exercise-Induced ST-Segment Depression in the Inferior Leads During Exercise Testing as a Marker for Coronary Artery Disease
Cres P. Miranda, James Liu, Andras Kadar, Andras Janosi, Jeffrey Froning, Kenneth G. Lehmann, and Victor F. Froelicher

308

Comparison of One-, Six- and 24-Hour Ambulatory Electrocardiographic Monitoring for Ventricular Arrhythmia as a Predictor of Mortality in Survivors of Acute Myocardial Infarction
Stuart J. Connolly, and John A. Cairns, on behalf of the CAMIAT Pilot Study Group

314

Clinical Angiographic and Histologic Correlates of Ectasia After Directional Coronary Atherectomy
Nicoletta B. De Cesare, Jeffrey J. Popma, David R. Holmes, Jr., Ronald J. Dick, Patrick L. Whitlow, Spencer B. King, Cass A. Pinkerton, Dean J. Kereiakes, Eric J. Topol, Christian C. Haudenschild, and Stephen G. Ellis

320

Pulmonary Thallium-201 Uptake Following Dipyridamole-Exercise Combination Compared with Single Modality Stress Testing
Gilbert A. Hurwitz, J. Paul O'Donoghue, John E. Powe, Denis R. Gravelle, A. Craig MacDonald, and Keith J.C. Finnie

327

Survey of Practicing Cardiologists in Maryland on Their Choice of Thrombolytic Therapy for Acute Myocardial Infarction
Gary D. Plotnick, Andrew A. Ziskind, and Robert A. Vogel

ARRHYTHMIAS AND CONDUCTION DISTURBANCES

331

Survey of Cardiac Pacing in the United States in 1989
Alan D. Bernstein and Victor Parsonnet

339

Role of Sympathovagal Interaction in Diurnal Variation of QT Interval
Yuji Murakawa, Hiroshi Inoue, Akira Nozaki, and Tsuneaki Sugimoto

SYSTEMIC HYPERTENSION

344

Circadian Variation in Ventricular Arrhythmias in Hypertensive Men
David Siegel, Dennis M. Black, Dana G. Seeley, and Stephen B. Hulley

VALVULAR HEART DISEASE

348

Effects of a Single Oral Dose of Captopril on Left Ventricular Performance in Severe Mitral Regurgitation
Thomas Wisenbaugh, Rafique Essop, Christian Rothlisberger, and Pinhas Sareli

355**Comparison of Results of Percutaneous Mitral Valvuloplasty in Patients with Large (>6 cm) Versus Those with Smaller Left Atria**

Fernando Alfonso, Carlos Macaya, Andrés Iñiguez, Camino Bahuelos, Rosa Hernandez, Javier Goicolea, Antonio Fernandez-Ortiz, José Zamorano, and Pedro Zarco

361**Hemodynamic Effects of Nitroprusside on Valvular Aortic Stenosis**

Hamid Ikram, Clive J.S. Low, Ian G. Crozier, and Teresa Shirlaw

367**Value of Exercise Doppler Echocardiography in Patients with Prosthetic or Bioprosthetic Cardiac Valves**

Renée B.A. van den Brink, Hans A. Verheul, Cees A. Visser, Mark J.W. Koelmaay, and Arend J. Dunning

CARDIOMYOPATHY

373**Influence of Mitral Regurgitation on the Response to Captopril Therapy for Congestive Heart Failure Caused by Idiopathic Dilated Cardiomyopathy**

A. Evangelista-Masip, J. Bruguera-Cortada, R. Serrat-Serradell, A. Robles-Castro, E. Galve-Basilio, M. Alijarde-Guimera, and J. Soler-Soler

CONGENITAL HEART DISEASE

377**Predictors of Long-Term Survival with Ebstein's Anomaly of the Tricuspid Valve**

Thomas L. Gentles, A. Louise Calder, Patricia M. Clarkson, and John M. Neutze

382**Differences in Circadian Blood Pressure Between Upper and Lower Extremity in Aortic Coarctation Patients With and Without Postoperative Pressure Gradients**

Jens Sehested

MISCELLANEOUS

387**Systemic Venous Flow During Cardiac Surgery Examined by Intraoperative Transesophageal Echocardiography**

Fausto J. Pinto, Bengt Wranne, Frederick G. St. Goar, Lawrence C. Siegel, Gordon Haddow, Ingela Schnittger, and Richard L. Popp

394**Relation of Plain Chest Radiographic Findings to Pulmonary Arterial Pressure and Arterial Blood Oxygen Levels in Patients with Acute Pulmonary Embolism**

Paul D. Stein, Christos Athanasoulis, Richard H. Greenspan, and Jerald W. Henry

397**Level and Diurnal Variations of Hormones of Interest to the Cardiovascular System in Patients with Heart Transplants**

Jens Sehested, Frank Thomas, Martin Thom, Søren Schifter, Vera Regitz, Søren Sheikh, Wolfgang Oelkers, Ølo Palm, Wolfgang Meyer-Sabellek, and Roland Hetzer

METHODS

403**Rate-Corrected Mean Velocity of Fiber Shortening—Stress at Peak Systole as a Load-Independent Measure of Contractility**

George G. S. Sandor, Ruby Popov, Eustace De Souza, Starr Morris, and Beverley Johnston

BRIEF REPORTS

408**Comparison of One-, Six- and 24-Hour Ambulatory Electrocardiographic Monitoring for Ventricular Arrhythmia as a Predictor of Mortality in Survivors of Acute Myocardial Infarction**

Stuart J. Connolly, and John A. Cairns, on behalf of the CAMIAT Pilot Study Group

411**Consequences of a Media Campaign Focusing on Delay in Acute Myocardial Infarction**

Marianne Blohm, Johan Herlitz, Marianne Hartford, Björn W. Karlson, Martin Risenfors, Russell V. Luepker, Margareta Sjölin, and Stig Holmberg

413**Interobserver Variability in Grading of Coronary Arterial Narrowings Using the American College of Cardiology/American Heart Association Grading Criteria**

Neal S. Kleiman, Arsenio R. Rodriguez, and Albert E. Raizner

415**Lack of Correlation Between the Signal-Averaged Electrocardiogram and Regional Wall Motion Abnormalities in Coronary Artery Disease**

Alan Woelfel, David E. Weaver, Mark Jenkins, Linda P. Woelfel, and Margaret C. Herbst

417**Efficacy and Safety of a New Selective Class III Antiarrhythmic Agent Dofetilide in Paroxysmal Atrial Fibrillation or Atrial Flutter**

Maarten J. Sutorp, Peter E. Polak, Arnoud van 't Hof, Henrik S. Rasmussen, Peter H. Dunselman, and J. Herre Kingma

419**Usefulness of Transesophageal Echocardiography for Diagnosis of Mitral Valve Prolapse**

José Zamorano, Raimund Erbel, Thomas Mackowski, Fernando Alfonso, and Jürgen Meyer

423**Efficiency of Disopyramide in Hypertrophic Cardiomyopathy During Stress States**

Alain Millaire, Luc Goullard, Eric Decoulx, Pascal de Groote, Yvon Houdas, and Gérard Ducloux

425**Assessment of Relative Sensitivities of Noninvasive Tests for Cardiac Amyloidosis in Documented Cardiac Amyloidosis**

Michael Simons and Jeffrey M. Isner

427**Simultaneous Mechanical Clot Fragmentation and Pharmacologic Thrombolysis in Acute Massive Pulmonary Embolism**

Mohammed Rafique Essop, Shirley Middlemost, John Skoularigis, and Pinhas Sareli

READERS' COMMENTS

431**Patency of Ductus Arteriosus in Pulmonary Atresia and Ventricular Septal Defect**
Bruno Marino**The Bedside Valsalva Maneuver in the Diagnosis of Congestive Heart Failure**

Michael J. Zema

FROM THE EDITOR

432**Doctors, Save Your Money Because There Will Be Less in the Future**

William C. Roberts

FEBRUARY 15, 1992, VOL. 69, NO. 5

PREVENTIVE CARDIOLOGY

433**Role of Water-Soluble Dietary Fiber in the Management of Elevated Plasma Cholesterol in Healthy Subjects**

William L. Haskell, Gene A. Spiller, Christopher D. Jensen, Brenda K. Ellis, and Joan E. Gates

440**Role of Diet and Exercise in the Management of Hyperinsulinemia and Associated Atherosclerotic Risk Factors**

R. James Barnard, Erika J. Ugianskis, Deborah A. Martin, and Stephen B. Inkeles

CORONARY ARTERY DISEASE

445**ST-Segment Depression During Dipyridamole Infusion, and Its Clinical, Scintigraphic and Hemodynamic Correlates**

Flordeliza S. Villanueva, William H. Smith, Denny D. Watson, and George A. Beller

449**Effect of Dipyridamole Therapy on Myocardial Ischemia in Patients with Stable Angina Pectoris Receiving Concurrent Anti-Ischemic Therapy**

Marilyn McFarland Barbour, Carol Ewing Garber, Kailash C. Agarwal, Rahul Malhotra, and Gary V. Heller

453**Plasma Platelet-Derived Growth Factor Levels in Coronary Circulation in Unstable Angina Pectoris**

Hisao Ogawa, Hirofumi Yasue, Ikuo Misumi, Takenobu Masuda, Ken Okumura, Satoko Bannai, Naoki Takanashi, and Yutaka Tsukada

457**Platelet Function After In Vivo and In Vitro Treatment with Thrombolytic Agents**

Giampiera Bertolino, Patrizia Noris, Mario Previtali, Gabriella Gamba, Maurizio Ferrario, Nadia Montani, and Carlo L. Balduini

462**Identification of Patients at High Risk for Recurrence of Sustained Ventricular Tachycardia After Healing of Acute Myocardial Infarction**

Luz Maria Rodriguez, Rudolfo Oyarzun, Joep Smeets, Johannes Brachmann, Claus Schmitt, Pedro Brugada, Peter Geelen, Györgyi Lipcsei, Adelin Albert, and Hein J. J. Wellens

465**Correlation of the Complete Version of the Selvester QRS Scoring System with Quantitative Anatomic Findings for Multiple Left Ventricular Myocardial Infarcts**

Dorina C. Sevilla, Nancy B. Wagner, Robert Pegues, Steven L. Peck, Eileen M. Mikat, Raymond E. Ideker, Grover Hutchins, Keith A. Reimer, Donald B. Hackel, Ronald H. Selvester, and Galen S. Wagner

470**Percutaneous Transluminal Coronary Rotary Ablation with Rotablator (European Experience)**

Michel E. Bertrand, Jean M. Lablanche, Fabrice Leroy, Christophe Bauters, Peter De Jaegere, Patrick W. Serruys, Jurgen Meyer, Ulrich Dietz, and Raimund Erbel

475**Quantitative Angiographic Follow-Up of the Coronary Wallstent in Native Vessels and Bypass Grafts (European Experience—March 1986 to March 1990)**

Bradley H. Strauss, Patrick W. Serruys, Michel E. Bertrand, Jacques Puel, Bernhard Meier, Jean-Jacques Goy, Lukas Kappenberger, Anthony F. Rickards, and Ulrich Sigwart, with the technical assistance of Marie-Angèle Morel and Eline Montauban van Swijndregt

482**Effects of the Dipyridamole Test on Left Ventricular Function in Coronary Artery Disease**

Herman O. Klein, Reuven Ninio, Shlomo Eliyahu, Avinoam Bakst, Alex Levi, Hadassah Dean, Victor Oren, Bruno Beker, Elieser Kaplinsky, Shlomo Gilboa, and Elio Di Segni

ARRHYTHMIAS AND CONDUCTION DISTURBANCES

489**Improvement in Left Ventricular Systolic Function After Successful Radiofrequency His Bundle Ablation for Drug Refractory, Chronic Atrial Fibrillation and Recurrent Atrial Flutter**

Gottfried Heinz, Peter Siostrzonek, Gerhard Kreiner, and Heinz Gössinger

493**Frequency of Recurrent Atrial Fibrillation After Catheter Ablation of Overt Accessory Pathways**

Michel Haissaguerre, Bruno Fischer, Thierry Labbé, Philippe Lemétayer, Paul Montserrat, Christophe d'Ivernois, Jean-François Dartigues, and Jean-François Warin

498**Efficacy of Intravenous Sotalol for Suppressing Inducibility of Supraventricular Tachycardias at Rest and During Isometric Exercise**

Heikki V. Huikuri, M. Juhani Koistinen, and Juha T. Takkunen

503**Conversion of Typical to "Atypical" Atrioventricular Nodal Reentrant Tachycardia After Radiofrequency Catheter Modification of the Atrioventricular Junction**

Jonathan J. Langberg, Yoon-Nyun Kim, Rajiva Goyal, William Kou, Hugh Calkins, Joao Sousa, Rafel El-Atassi, and Fred Morady

509**Effect of Epinephrine on the Efficacy of the Internal Cardioverter-Defibrillator**

João Sousa, William Kou, Hugh Calkins, Shimon Rosenheck, Alan Kadish, and Fred Morady

513**Clinical and Electrophysiologic Effects of Intravenous Dofetilide (UK-68,798), a New Class III Antiarrhythmic Drug, in Patients with Angina Pectoris**

Martin L. Sedgwick, Henrik S. Rasmussen, and Stuart M. Cobbe

SYSTEMIC HYPERTENSION

518**Safety of Pyridostigmine in Hypertensive Patients Receiving Beta Blockers**

Michael Arad, Arie Roth, Julian Zelinger, Zehavit Zivner, Babeth Rabinowitz, and Jacob Atsmon

CONGESTIVE HEART FAILURE

523**Effects of Heart Failure on Baroreflex Control of Sympathetic Neural Activity**

David W. Ferguson, William J. Berg, Paul J. Roach, Ron M. Oren, and Allyn L. Mark, with the technical assistance of Joan S. Kempf

532**Effect of Captopril on Cardiac Parasympathetic Activity in Chronic Cardiac Failure Secondary to Coronary Artery Disease**

Andrew D. Flapan, James Nolan, James M. M. Neilson, and David J. Ewing

VALVULAR HEART DISEASE

537**Late (Two-Year) Follow-Up After Percutaneous Balloon Mitral Valvotomy**

Peter C. Block, Igor F. Palacios, Elizabeth H. Block, E. Murat Tuzcu, and Brian Griffin

MISCELLANEOUS

542**Reproducibility of Quantitative Backscatter Echocardiographic Imaging in Normal Subjects**

John A. Stuhlmüller, David J. Skorton, Trudy L. Burns, Hewlett E. Melton, Jr., and Byron F. Vandenberg

547**Effects of Cardiac Transplantation on Ventilatory Response to Exercise**

Kevin P. Marzo, John R. Wilson, and Donna M. Mancini

BRIEF REPORTS

554**Influence of Residual Blood Flow in the Infarct-Related Artery on Ventricular Tachycardia After Myocardial Infarction**

Leslie A. Saxon, C. Todd Sherman, William G. Stevenson, Lawrence A. Yeatman, and Isaac Wiener

555**Prevalence of Silent Myocardial Ischemia Detected by 24-Hour Ambulatory Electrocardiography, and Its Association with New Coronary Events at 40-Month Follow-Up in Elderly Diabetic and Nondiabetic Patients with Coronary Artery Disease**

Wilbert S. Aronow, Anthony D. Mercado, and Stanley Epstein

557**Frequency of Ventricular Ectopic Activity in Isolated Systolic Systemic Hypertension**

John B. Kostis, Clifton R. Lacy, Daniel M. Shindler, Nemat O. Borhani, W. Dallas Hall, Alan C. Wilson, Susan Krieger, and Sandra Chelton

560**Detection of Patent Foramen Ovale by Transcranial Contrast Doppler Ultrasound**

Ronald Karnik, Claudia Stöllberger, Andreas Valentin, Walther-Benedikt Winkler, and Jörg Slany

562**Estimation of Pulmonary Arterial Wedge Pressure by Pulsed Doppler Echocardiography and Phonocardiography**

Marvin Berger, Matt Bach, Susan R. Hecht, and Andrew Van Tosh

565**Richard Lower (1631-1691): A Pioneer of Cardiac Research**

Andrew J. Larner

565**Assessment by Echocardiogram of Left Ventricular Diastolic Function in Healthy Subjects Using the Atrioventricular Plane Displacement**

Mahbulul Alam and Christer Höglund

568**Cytologic Analysis of Pericardial Effusion Complicating Extracardiac Malignancy**

Yeouda Edoute, Ehud Malberger, Avram Kuten, Shlomo A. Ben-Haim, and Marian Moscovitz

READERS' COMMENTS

572**Lipoprotein (a) is Not a Risk Factor for Restenosis After Percutaneous Transluminal Coronary Angioplasty**

Martin Schumacher, Andreas Tiran, Bernd Eber, Hermann Toplak, Martie Wilders-Truschnig, Werner Klein

Thallium Stress Tests in Asymptomatic Diabetics

Roger B. Chaffee

573**Seismocardiography is Not a New Term**

Samuel Zoneraich

574**Single Inoue Balloon Catheter Versus Double Mansfield Balloon Catheter Techniques in Percutaneous Balloon Mitral Valvuloplasty**

Tsung O. Cheng

Correction

CORONARY ARTERY DISEASE

575

Immediate and Long-Term Results of Delayed Recanalization of Occluded Acute Myocardial Infarction-Related Arteries Using Coronary Angioplasty

M. Nagui Sabri, Germano DiSciascio, Michael J. Cowley, Evelyn Goudreau, Mark Warner, Ravinder S. Kohli, Sandeep Bajaj, Kim Kelly, and George Vetrovec

579

Characterization and Prognostic Significance of Silent Myocardial Ischemia on PredischARGE Electrocardiographic Monitoring in Unselected Patients with Myocardial Infarction

Mario Petretta, Domenico Bonaduce, Valter Bianchi, Giancarlo Vitagliano, Gabriele Conforti, Francesco Rotondi, Sakis Themistoclakis, and Gianfranco Morgano

589

Angiographic Risk Factors of Luminal Narrowing After Coronary Balloon Angioplasty Using Balloon Measurements to Reflect Stretch and Elastic Recoil at the Dilatation Site

Benno J. Rensing, Walter R. M. Hermans, Jeroen Vos, Kevin J. Beatt, Patrick Bossuyt, Wolfgang Rutsch, and Patrick W. Serruys, on behalf of the CARPORT Study Group

592

Comparison of Percutaneous Transluminal Coronary Angioplasty Versus Coronary Artery Bypass Grafting for Multivessel Coronary Artery Disease

James L. Vacek, Thomas L. Rosamond, H. William Stites, Steven K. Rowe, Wayne Robuck, Georgia Dittmeier, and Gary D. Beauchamp

598

Wiktör Stent Implantation in Patients with Restenosis Following Balloon Angioplasty of a Native Coronary Artery

Peter P. de Jaegere, Patrick W. Serruys, Michel Bertrand, Volker Wiegand, Gisbert Kober, Jean Francois Marquis, Bernard Valeix, Rainer Uebis, and Jan Piessens

603

Accuracy of ST/Heart Rate Index in the Diagnosis of Coronary Artery Disease

Anthony P. Morise and Robert A. Duval

607

Prognostic Value of Exercise Thallium Scintigraphy in Patients with Good Exercise Tolerance, a Normal or Abnormal Exercise Electrocardiogram and Suspected or Confirmed Coronary Artery Disease

Leonard F. Fagan, Jr., Leslee Shaw, Barbara A. Kong, Dennis G. Caralis, Robert D. Wiens, and Bernard R. Chaitman

ARRHYTHMIAS AND CONDUCTION DISTURBANCES

612

Comparison of a Vectorcardiographically Derived 12-Lead Electrocardiogram with the Conventional Electrocardiogram During Wide QRS Complex Tachycardia, and Its Potential Application for Continuous Bedside Monitoring

Barbara J. Drew, Melvin M. Scheinman, and G. Thomas Evans, Jr.

619

Prospective Detection of Vulnerability to Sustained Ventricular Tachycardia in Patients Awaiting Cardiac Transplantation

Bruce D. Lindsay, Judy L. Osborn, Kenneth B. Schechtman, Joseph L. Kenzora, H. Dieter Ambos, and Michael E. Cain

625

Superiority of a Vertical Sternal Lead for Detection of Arrhythmias During Ambulatory Electrocardiographic Monitoring

Peter Ott, Frank I. Marcus, William A. Scott, Anthony C. Caruso, Lionel H. Fattelton, and Elizabeth Hahn

628

Bradycardia-Induced Abnormal QT Prolongation in Patients with Complete Atrioventricular Block with Torsades de Pointes

Takashi Kurita, Tohru Ohe, Nobuyuki Marui, Naohiko Aihara, Hiroshi Takaki, Shiro Kamakura, Mokuo Matsuhisa, and Katsuro Shimomura

634

Assessment of QT Dispersion in Symptomatic Patients with Congenital Long QT Syndromes

Nicholas J. Linker, Paolo Colonna, Christopher A. Kekwick, Janice Till, A. John Camm, and David E. Ward

SYSTEMIC HYPERTENSION

639

Antihypertensive Effect of Felodipine Associated with Persistent Sympathetic Activation and Minimal Regression of Left Ventricular Hypertrophy

Frans H. H. Leenen and Donna L. Holliwell

CONGESTIVE HEART FAILURE

646

Dissociation of Sympathetic Responses to Baroreceptor Loading and Unloading in Compensated Congestive Heart Failure Secondary to Ischemic or Nonischemic Dilated Cardiomyopathy

Steven R. Goldsmith and Gregory J. Hasking

650

Value of Dipyridamole Thallium-201 Imaging in Noninvasive Differentiation of Idiopathic Dilated Cardiomyopathy from Coronary Artery Disease with Left Ventricular Dysfunction

Taishiro Chikamori, Yoshinori L. Doi, Yoshihiro Yonezawa, Mitsutoshi Yamada, Hiromi Seo, and Toshio Ozawa

VALVULAR HEART DISEASE

654

Enhanced Flow Velocity Increase Through the Left Ventricular Inflow Tract of Patients with Isolated Aortic Regurgitation

Toshiyuki Oniki, Yuji Hashimoto, Shigeo Shimizu, Masayoshi Iwakami, Toru Kato, Wulin Aerbajinal, Yukio Kishi, Michiyoshi Yajima, and Fujio Numano

CARDIOMYOPATHY

658

Search for Coxsackievirus B3 RNA in Idiopathic Dilated Cardiomyopathy Using Gene Amplification by Polymerase Chain Reaction

Maurizia Grasso, Eloisa Arbustini, Enrico Silini, Marta Diegoli, Elena Percivalle, Giulio Ratti, Manuela Bramero, Antonello Gavazzi, Mario Vigano, and Gabriele Milanesi

CONGENITAL HEART DISEASE

665

Determinants of Hemodynamic Results of Balloon Dilation of Aortic Recoarctation

Rui Anjos, Shakeel A. Qureshi, Eric Rosenthal, Ian Murdoch, Alison Hayes, Jonathan Parsons, Edward J. Baker, and Michael Tynan

673

Estimation of Right Ventricular Pressure in Children by Thallium-201 Myocardial Imaging Using Single-Photon Emission Computed Tomography

Tomoharu Akiba, Masaru Yoshikawa, Shinsuke Otaki, Mitsuru Nakasato, Hiroshi Suzuki, Satoshi Sato, and Tetsuo Sato

MISCELLANEOUS

677

Effect of Detraining on the Cardiopulmonary Reflex in Professional Runners and Hammer Throwers

Cristina Giannattasio, Gino Seravalle, Bianca M. Cattaneo, Cesare Cuspidi, Lorena Sampieri, Gianni B. Bolla, Guido Grassi, and Giuseppe Mancina

EDITORIALS

681

Meta-Analysis in Clinical Trials Reporting: Has a Tool Become a Weapon?

William E. Boden

687

Current Status of Stents

Eduardo Escorcia and Jay Hollman

689

Inappropriate Terminology in Publications Concerning Aortic Balloon Valvuloplasty

Francis Robicsek

BRIEF REPORTS

691

Coronary Flow Reserve in Children with Kawasaki Disease Without Angiographic Evidence of Coronary Stenosis

Kenji Hamaoka, Zenshiro Onouchi, and Yutaka Ohmochi

692

Adult Coronary Artery Disease Secondary to Kawasaki Disease in Childhood

Sugao Ishiwata, Katsuo Fuse, Shinichiro Nishiyama, Shigemoto Nakanishi, Yasunori Watanabe, and Akira Seki

694

Left Ventricular Function in Patients with Atrial Fibrillation Before and After Cardioversion

Mahbubul Alam and Curt Thorstrand

697

Value and Limitations of Transesophageal Echocardiography in Evaluating Prosthetic or Bioprosthetic Valve Dysfunction

Cesar J. Herrera, Farooq A. Chaudhry, Paul F. DeFrino, David J. Mehlmann, Kevin M. Mulhern, Robert A. O'Rourke, and Miguel Zabalgoitia

699

Results of Urgent or Emergency Repair for Symptomatic Infants Under One Year of Age with Single or Multiple Ventricular Septal Defects

Delores Danilowicz, Salvatore Presti, Stephen Colvin, Aubrey Galloway, Alan Langsner, and Eugenie F. Doyle

701

Effects of Acute and Chronic Alcohol Consumption on Postprandial Lipemia in Healthy Normotriglyceridemic Men

H. Robert Superko

705

Usefulness of Intravascular Ultrasound Imaging for Detecting Experimentally Induced Aortic Dissection in Dogs and for Determining the Effectiveness of Endoluminal Stenting

Douglas M. Cavaye, Rodney A. White, Robert D. Lerman, George E. Kopchok, Marwan R. Tabbara, Francois Cormier, and William J. French

707

Increased Left Ventricular Mass in Patients with Lateral Low-Voltage Electrocardiograms

Sriharsha Velury and David H. Spodick

CASE REPORTS

709

Myocardial Contusion After a Professional Boxing Match

Paolo Bellotti, Francesco Chiarella, Stefano Domenicucci, Gabriele Lupi, and Carlo Vecchio

READERS' COMMENTS

711

"Upright" Retrograde P Waves During Ventricular Tachycardia

Shinji Kinoshita and Fumihiko Okada

712

A Cardiologist to Perform at Carnegie Hall to Support His Division

Elieser Kaplinsky

MARCH 6, 1992, VOL. 69, NO. 7

A SYMPOSIUM: THE ISCHEMIC MYOCARDIUM: STRATEGIES FOR PRESERVATION AND PROTECTION

MARCH 15, 1992, VOL. 69, NO. 8

PREVENTIVE CARDIOLOGY

713

Usefulness of Parental Serum Total Cholesterol Levels in Identifying Children with Hypercholesterolemia

Irwin Benuck, Samuel S. Gidding, Mark Donovan, Edward S. Traisman, and Howard S. Traisman

CORONARY ARTERY DISEASE

718

Stability Over Time of Heart Period Variability in Patients with Previous Myocardial Infarction and Ventricular Arrhythmias

J. Thomas Bigger, Jr., Joseph L. Fleiss, Linda M. Rolnitzky, and Richard C. Steinman, with data contributed by the CAPS and ESSEM Investigators

724

Frequency of Complications of Cardiopulmonary Resuscitation After Thrombolysis During Acute Myocardial Infarction

Karl H. Scholz, Ulrich Tebbe, Christoph Herrmann, Jaroslav Wojcik, Renate Lingen, Joerg M. Chernitus, Stephan Brune, and Heinrich Kreuzer

729

Relation of the Site of Acute Myocardial Infarction to the Most Severe Coronary Arterial Stenosis at Prior Angiography

Didier Giroud, Jian M. Li, Philip Urban, Bernhard Meier, and Wilhelm Rutishauser

733

Effect on Prognosis of Abolition of Exercise-Induced Painless Myocardial Ischemia by Medical Therapy

Richard Lim, Lorraine Dyke, and Duncan S. Dymond

736

Usefulness of Serum Lipoprotein (a) as a Predictor of Restenosis After Percutaneous Transluminal Coronary Angioplasty

James A. Hearn, Bryan C. Donohue, Hisham Ba'albaki, John Douglas, Spencer King III, Nicholas Lembo, Gary Roubin, and Demetrios Sgoutas

740

Dobutamine Stress Echocardiography Before and After Coronary Angioplasty

Albert J. McNeill, Paolo M. Fioretti, El-Said M. El-Said, Alessandro Salustri, Pim J. de Feyter, and Jos R. T. C. Roelandt

746

Value and Limitations of Current Methods of Evaluating Patients Presenting to the Emergency Room with Cardiac-Related Symptoms for Determining Long-Term Prognosis

Flordeliza S. Villanueva, Peter J. Sabia, Ali Afrookteh, Stewart G. Pollock, Lie-Ju Hwang, and Sanjiv Kaul

ARRHYTHMIAS AND CONDUCTION DISTURBANCES

751

Effectiveness of Oral Sotalol for Treatment of Pediatric Arrhythmias

Pascale Maragnès, Marion Tipple, and Anne Fournier

755

Reproducibility of Head-Up Tilt-Table Testing for Eliciting Susceptibility to Neurally Mediated Syncope in Patients Without Structural Heart Disease

Xiao Chun Chen, Meng Yang Chen, Stephen Remole, Youichi Kobayashi, Ann Dunnigan, Simon Milstein, and David G. Benditt

CONGESTIVE HEART FAILURE

761

Clinical, Hemodynamic and Sympathetic Neural Correlates of Heart Rate Variability in Congestive Heart Failure

Michael G. Kienzie, David W. Ferguson, Clayton L. Birkett, Glenn A. Myers, William J. Berg, and D. James Mariano

769

Evidence of Increased Microvascular Resistance and Arteriolar Hyalinosis in Skin in Congestive Heart Failure Secondary to Idiopathic Dilated Cardiomyopathy

Henrik Wroblewski, Jens Kastrup, Tove Nørgaard, Svend-Aage Mortensen, and Stig Haunsø

VALVULAR HEART DISEASE

775

Mitral Valve Resistance as a Hemodynamic Indicator in Mitral Stenosis

Reinaldo W. Beyer, Alfonso Olmos, Rubén F. Bermúdez, and H. Elizabeth Noll

CARDIOMYOPATHY

780

Myocardial Perfusion Abnormalities in Chronic Chagas' Disease as Detected by Thallium-201 Scintigraphy

José A. Marin-Neto, Paolo Marzullo, Claudio Marcassa, Lourenço Gallo, Jr., Benedito C. Maciel, C. Ricardo Bellina, and Antonio L'Abbate

CONGENITAL HEART DISEASE

785

Right Ventricular Overload and Induced Sustained Ventricular Tachycardia in Operatively "Repaired" Tetralogy of Fallot

Pierre Y. Marie, François Marçon, François Brunotte, Serge Briançon, Nicolas Danchin, Anne M. Worms, Jacques Robert, and Claude Pernot

790

Extracorporeal Life Support in Cyanotic Congenital Heart Disease Before Cardiovascular Operation

Nicole M. Hunkeler, Charles E. Canter, Ann Donze, and Thomas L. Spray

MISCELLANEOUS

794

Reappearance of a Normal Circadian Rhythm of Blood Pressure After Cardiac Transplantation

Philippe van de Borne, Marc Leeman, Georges Primo, and Jean-Paul Degaut

CARDIOVASCULAR PHARMACOLOGY

802

Dose-Dependent Effect of Intravenous Nitroglycerin on Platelet Aggregation, and Correlation with Plasma Glyceryl Dinitrate Concentration in Healthy Men

Karl-Erik Karlberg, Kristina Torfgård, Johan Ahlner, and Christer Sylvén

BRIEF REPORTS

806

Effect of Coronary Stenosis Severity on Variability of Quantitative Arteriography, and Implications for Interventional Trials

G. B. John Mancini, Paula R. Williamson, and Scott F. DeBoe

807

Coronary Artery Disease and Factor VII Hyperactivity in Elderly Japanese

Kazuomi Kario and Takefumi Matsuo

810

Effects of Percutaneous Balloon Mitral Valvotomy on Pulmonary Venous Flow in Severe Mitral Stenosis

Deepak Natarajan, Ved P. Sharma, Subhash Chandra, Sanjay K. Dhar, Mahendra Gaba, and Birjis Caroli

813

Hemodynamic Determinants of the Peak Systolic Left Ventricular-Aortic Pressure Gradient in Children with Valvar Aortic Stenosis

Robert H. Beekman, Albert P. Rocchini, Joseph H. Gillon, and G. B. John Mancini

815

Percutaneous Closure of the Small (<2.5 mm) Patent Ductus Arteriosus Using Coil Embolization

Patrick A. Cambier, William C. Kirby, Dale C. Wortham, and John W. Moore

817

Left Atrial Spontaneous Echocardiographic Contrast After Heart Transplantation

Esteban G. Torrecilla, Miguel A. García-Fernández, Daniel San Roman, Roberto Muñoz, Jesús Palomo, and Juan L. Delcán

819

Intra-aortic Debris as a Potential Source of Embolic Stroke

David C. Rubin, Gary D. Plotnick, and Mary W. Hawke

821

Fibrin Modification by Ionic and Nonionic Contrast Media During Cardiac Catheterization

Christopher B. Granger, Don A. Gabriel, Neil S. Reece, Emily Boothroyd, Michael B. Harding, J. Kevin Harrison, Yihong Kong, and Thomas M. Bashore

823

Age-Associated Changes in Left Ventricular Diastolic Performance During Isometric Exercise in Normal Subjects

Christian J. Swinne, Edward P. Shapiro, Sandra D. Lima, and Jerome L. Fleg

CASE REPORTS

827

An Unusual Variant of Common Arterial Trunk

Louis Tsun-Cheung Chow, Wing-Hing Chow, and Robert H. Anderson

829

Mitral Valve Laceration and Papillary Muscle Rupture Secondary to Percutaneous Balloon Aortic Valvuloplasty

Andrew Farb, Joel R. Galloway, Richard C. Davis, Allen P. Burke, and Renu Virmani

830

Assessment of Electromyocardial Continuity in Conjoined (Thoracopagus) Twins

Mei-Hwan Wu, Yung-Chang Lai, Huey-Ming Lo, Ying-Hui Hsu, and Hung-Chi Lue

832

Utility of Contrast Echocardiography in the Evaluation of a Suspected Right Atrial Mass

Mark Nootens, Kenneth Ford, and Stephen Devries

READERS' COMMENTS

835

Alternative Surgical Procedure to Cardiac Transplantation for Giant Coronary Artery Aneurysms Complicating Kawasaki Disease

Joseph Emmerich and Daniel Thomas

Correlation of Minimum Coronary Lumen Diameter with Left Ventricular Functional Impairment Induced by Atrial Pacing

Azhar Faruqi

Vasomotor Response to Ergonovine of Proximal and Distal Coronary Segments

Claude Hanet

836

Usefulness of Nifedipine in Acute Myocardial Infarction

Paul R. Lichtlen

837

Atrial Natriuretic Factor and Transmural Pressures

David H. Spodick

838

Prospective Identification by Two-Dimensional Echocardiography of Anomalous Origin of the Left Main Coronary Artery from the Right Sinus of Valsalva

Pr. Gilles Grollier

839

Mechanism of Still's Murmur

Tsung O. Cheng

Suspected But Unconfirmed Acute Myocardial Infarction — "Quo Tandem Catalina Nostra Patientia Vos Abutere?"

Nanette K. Wenger

840

Urokinase Versus Heparin in Acute Myocardial Infarction: No Difference?

John C. Sobolski, Arthur A. Sasahara, Maureen McConnell, and James F. Lancaster

Musical Murmurs

Warren G. Guntheroth

842

Complications Associated with New-Onset Atrial Fibrillation

David A. Nardone

843

Acid Paper Makes Brittle Journals and Books

Tsung O. Cheng

Placebo-Controlled or Active-Controlled Trials for Variant Angina Pectoris?

Diego Ardissino and Stefano Savonitto

844

Nonfasting Triglycerides and Insurance Companies

Mark R. Goldstein

Differentiation of Digoxin-Induced ST-Segment Changes from Ischemia-Induced ST-Segment Depression During Holter Monitoring

Tsung O. Cheng

APRIL 1, 1992, VOL. 69, NO. 9

CORONARY ARTERY DISEASE

845

Improved Stenosis Geometry by Quantitative Coronary Arteriography After Vigorous Risk Factor Modification

K. Lance Gould, Dean Ornish, Richard Kirkeeide, Shirley Brown, Yvonne Stuart, Martin Buchi, James Billings, William Armstrong, Thomas Ports, and Larry Scherwitz

854

Prediction by Postexercise Fluoro-18 Deoxyglucose Positron Emission Tomography of Improvement in Exercise Capacity After Revascularization

Thomas H. Marwick, James J. Nemec, Antoine Lafont, Ernesto E. Salcedo, and William J. MacIntyre

860

Implications of Inferior ST-Segment Elevation Accompanying Anterior Wall Acute Myocardial Infarction for the Angiographic Morphology of the Left Anterior Descending Coronary Artery Morphology and Site of Occlusion

Peter M. Sapin, David R. Musselman, Gregory J. Dehmer, and Wayne E. Cascio

866

Influence of Thrombolysis on Signal-Averaged Electrocardiogram and Late Arrhythmic Events After Acute Myocardial Infarction

Roberto Pedretti, Antonio Laporta, Mario D. Etro, Adelia Gementi, Roberto Bonelli, Claudio Anzà, Enrica Colombo, Franco Maslowsky, Francesco Santoro, and Bruno Carù

873

Cardiopulmonary Receptor and Arterial Baroreceptor Reflexes After Acute Myocardial Infarction

Guido Grassi, Cristina Giannattasio, Gino Seravalle, Giuseppe Osculati, Franco Valagussa, Alberto Zanchetti, and Giuseppe Mancia

879

An Indian Experiment with Nutritional Modulation in Acute Myocardial Infarction

Ram B. Singh, Shanti S. Rastogi, Rakesh Verma, Laxmi Bolaki, and Reema Singh

886

Early Hemodynamic Results of Left Ventricular Reconstructive Surgery for Anterior Wall Left Ventricular Aneurysm

Marisa Di Donato, Giuseppe Barletta, Mauro Maioli, Fabio Fantini, Philippe Coste, Michel Sabatier, Francoise Montiglio, and Vincent Dor

ARRHYTHMIAS AND CONDUCTION DISTURBANCES

891

Correlations Among Time and Frequency Domain Measures of Heart Period Variability Two Weeks After Acute Myocardial Infarction

J. Thomas Bigger, Jr., Joseph L. Fleiss, Richard C. Steinman, Linda M. Rohnitzky, Robert E. Kleiger, and Jeffrey N. Rottman

899

Survival After Implantation of the Cardioverter Defibrillator

David Newman, Mary Jane Sauve, John Herre, Jonathan J. Langberg, Michael A. Lee, Christina Titus, Jay Franklin, Melvin M. Scheinman, and Jerry C. Griffin

904

Head-Upright Tilt-Table Testing in Evaluation and Management of the Malignant Vasovagal Syndrome

Blair P. Grubb, Peter Temesy-Armos, Joseph Moore, Douglas Wolfe, Harry Hahn, and Laura Elliot

909

Usefulness of PredischARGE Electrophysiologic Study in Predicting Late Outcome After Surgical Ablation of the Accessory Pathway in the Wolff-Parkinson-White Syndrome

San-Jou Yeh, Chun-Chieh Wang, Fun-Chung Lin, Jen-Ping Chang, Chau-Hsiung Chang, and Delon Wu

SYSTEMIC HYPERTENSION

913

Significance of Ventricular Arrhythmias in Systemic Hypertension with Left Ventricular Hypertrophy

Stuart D. Pringle, Francis G. Dunn, Peter W. Macfarlane, James H. McKillop, A. Ross Lorimer, and Stuart M. Cobbe

918

Comparative Effects of Fenoldopam Mesylate and Nitroprusside on Left Ventricular Performance in Severe Systemic Hypertension

Béla B. Hackman, Beate Griffin, Mary Mills, and Kodangudi B. Ramanathan

923

Comparison of Angiotensin-Converting Enzyme Inhibitors and Calcium Antagonists in the Treatment of Mild to Moderate Systemic Hypertension, According to Baseline Ambulatory Blood Pressure Level

Daniel Herpin, Bernard Vaisse, Muriel Pitiot, Régis de Gaudemaris, Jean-Michel Mallion, Louis Poggi, and Jean Demange

VALVULAR HEART DISEASE

927

Effect of Aortic Valve Stenosis (Pressure Overload) and Regurgitation (Volume Overload) on Left Ventricular Systolic and Diastolic Function

Bruno Villari, Otto M. Hess, Philipp Kaufmann, Otto N. Krogmann, Joerg Grimm, and Hans P. Krayenbuehl

CARDIOMYOPATHY

935

Clinical Course of Middle-Aged Asymptomatic Patients with Hypertrophic Cardiomyopathy

Gabriela M. Hecht, Julio A. Panza, and Barry J. Maron

CONGENITAL HEART DISEASE

941

Comparison of Magnetic Resonance Imaging with Cross-Sectional Echocardiography in the Assessment of Left Ventricular Myocardial Mass in Children Without Heart Disease and in Aortic Isthmic Coarctation

Michael Vogel, Heiko Stern, Richard Bauer, and Konrad Böhlmeier

945

Short- and Midterm Results of Balloon Valvuloplasty for Valvular Aortic Stenosis in Children

Maarten Witsenburg, Adri H. Cromme-Dijkhuis, Ingrid M. E. Frohn-Mulder, and John Hess

MISCELLANEOUS

951

Circadian Variation in Platelet Function in Healthy Volunteers

Syed M. Jafri, Mike VanRollins, Tsunenori Ozawa, Eberhard F. Mammen, A. David Goldberg, and Sidney Goldstein

METHODS

955

Outcome and Complications of Prolonged Intraaortic Balloon Counterpulsation in Cardiac Patients

Jason M. Lazar, Galal M. Ziady, Stephen J. Dummer, Mark Thompson, and Robert J. Ruffner

EDITORIALS

959

Evaluation of the Implantable Cardioverter Defibrillator in Survivors of Cardiac Arrest: The Need for Randomized Trials

Stuart J. Connolly and Salim Yusuf

BRIEF REPORTS

963

Meta-Analysis of the Effectiveness of Prophylactic Drug Therapy in Preventing Supraventricular Arrhythmia Early After Coronary Artery Bypass Grafting

Peter R. Kowey, Joan E. Taylor, Seth J. Rials, and Roger A. Marinchak

965

Late (Five to Eight Years) Clinical and Angiographic Assessment of Patients Undergoing Successful Percutaneous Transluminal Coronary Angioplasty

Barry Sharaf, Raymon S. Riley, Thomas M. Drew, and David O. Williams

968

Effectiveness of Percutaneous Transluminal Coronary Angioplasty in Cardiogenic Shock During Acute Myocardial Infarction

Charles Seydoux, Jean-Jacques Goy, Philippe Beuret, Jean-Christophe Stauffer, Pierre Vogt, Marie-Denise Schaller, Lukas Kappenberger, and Claude Perret

971

Long-Term Amiodarone Therapy and Antithyroid Antibodies

Hilário Bastos Machado, Maria Emília Pereira da Silva, and Bernardino Pinho

972

Idiopathic "Dilated" Cardiomyopathy With or Without Mild Dilatation of the Cardiac Ventricles in Multiple Family Members

Edgardo Zimmerman, Abraham Chwojnik, and Jorge Lerman

READERS' COMMENTS

974

Noninvasive Differentiation of Noncoronary from Coronary Cardiomyopathy

David H. Spodick

Diastolic Ventricular Function After the Fontan Operation

Daniel J. Penny and Andrew N. Redington

975

Effects of Captopril on Infarct Expansion

P. Dileep Kumar

976

Mechanism of Concealed Bigeminy

Shinji Kinoshita and Fumihiko Okada

APRIL 2, 1992, VOL. 69, NO. 10

A SYMPOSIUM: HYPERTENSION MANAGEMENT STRATEGIES FOR THE 1990s: FOCUS ON ANGIOTENSIN-CONVERTING ENZYME (ACE) INHIBITION AND REDUCTION OF THE CARDIOVASCULAR RISK

APRIL 15, 1992, VOL. 69, NO. 12

CORONARY ARTERY DISEASE

977

Interrelation of Left Ventricular Ejection Fraction, Pulmonary Congestion and Outcome in Acute Myocardial Infarction

Shmuel Gottlieb, Arthur J. Moss, Michael McDermott, and Shirley Eberly

Long-Term Prognosis After Acute Myocardial Infarction in Patients with Left Ventricular Hypertrophy on the Electrocardiogram

Solomon Behar, Henrietta Reicher-Reiss, Edward Abinader, Jacob Agmon, Jacob Barzilai, Yaacov Friedman, Elieser Kaplinsky, Nissim Kauli, Yehezkiel Kishon, Abraham Palant, Benyamin Peled, Leonardo Reisin, Zvi Schlesinger, Izhar Zahavi, Monty Zion, Uri Goldbourt, and the SPRINT Study Group

991

Milwaukee Prehospital Chest Pain Project — Phase I: Feasibility and Accuracy of Prehospital Thrombolytic Candidate Selection

Tom P. Aufderheide, Michael H. Keelan, Gail E. Hendley, Nancy A. Robinson, Thomas E. Hastings, Ruben F. Lewin, Harvey F. Hewes, Alan Daniel, David Engle, Barry K. Gimbel, Kenneth R. Bortin, David J. Clardy, Donald H. Schmidt, Tanvir Bajwa, Peter Holzhauser, Russell C. Dabrowski, Gregory H. Schuchard, and Sam Teichman

997

Effect on Global and Regional Left Ventricular Functions by Percutaneous Transluminal Coronary Angioplasty in the Chronic Stage After Myocardial Infarction

Thomas Linderer, Bettina Guhl, Christoph Spielberg, Werner Wunderlich, Luise Schnitzer, and Rolf Schröder

1003

Circadian Distribution of Onset of Acute Myocardial Infarction in Subgroups from Analysis of 10,791 Patients Treated in a Single Center

Ole Hansen, Bengt W. Johansson, and Bo Gullberg

1009

Effects of Left Ventricular Dysfunction on the Circadian Variation of Ventricular Premature Complexes in Healed Myocardial Infarction

Anne M. Gillis, Robert W. Peters, L. Brent Mitchell, Henry J. Duff, Margot McDonald, and D. George Wyse

1015

Comparison of the Plasma Levels of Apolipoproteins B and A-1, and Other Risk Factors in Men and Women with Premature Coronary Artery Disease

Peter O. Kwiterovich, Jr., Josef Coresh, Hazel H. Smith, Paul S. Bachorik, Carol A. Derby, and Thomas A. Pearson

1022

Prognostic Importance of Quantitative Analysis of Coronary Cineangiograms

G. B. John Mancini, Martial G. Bourassa, Paula R. Williamson, Guy Leclerc, Scott F. DeBoe, Bertram Pitt, and Jacques Lesperance

ARRHYTHMIAS AND CONDUCTION DISTURBANCES

1028

Supraventricular Tachycardia Mechanisms and Their Age Distribution in Pediatric Patients

Jae Kon Ko, Barbara J. Deal, Janette F. Strasburger, and D. Woodrow Benson, Jr., with the technical assistance of Mark Donovan

1033

On the Mechanism of Termination and Perpetuation of Atrial Fibrillation

Yukio Asano, Jun-ichi Saito, Kazuo Matsumoto, Keiko Kaneko, Toshio Yamamoto, and Masatsugu Uchida

1039

Long-Term Outcome of Paced and Nonpaced Patients with Severe Carotid Sinus Syndrome

Michele Brignole, Carlo Menozzi, Gino Lolli, Nicola Bottoni, and Germano Gaggioli

1044

Usefulness of Clinical Characteristics in Predicting the Outcome of Electrophysiologic Studies in Unexplained Syncope

William B. Bachinsky, Mark Linzer, Leisa Weld, and N. A. Mark Estes III

VALVULAR HEART DISEASE

1050

Estimation of Mitral Valve Area from Regression Analysis of the Pressure Gradient in Mitral Stenosis

John A. Bittl, Alan C. Yeung, Vladimir Vekshtein, John D. Parker, and R. David Fish

CONGENITAL HEART DISEASE

1056

Transcatheter Closure of Atrial Septal Defect by "Buttoned" Devices

P. Syamasundar Rao, Allen D. Wilson, and Paramjeet S. Chopra

MISCELLANEOUS

1063

Reversal of Endothelin-1-Induced Vasoconstriction by Nifedipine in Human Resistance Vessels in Vivo in Healthy Subjects

Wolfgang Kiowski and Lilly Linder

1067

Left Ventricular Dimensions and Mass Using Magnetic Resonance Imaging in Female Endurance Athletes

Maggie Riley-Hagan, Ronald M. Peshock, James Stray-Gundersen, Jose Katz, Timothy W. Ryschon, and Jere H. Mitchell

1075

Diagnosis and Management (by Subxiphoid Pericardiotomy) of Large Pericardial Effusions Causing Cardiac Tamponade

Thomas C. Wall, Paul T. Campbell, Christopher M. O'Connor, Peter Van Trigt, Richard T. Kenney, Khalid H. Sheikh, Joseph A. Kisslo, and G. Ralph Corey

METHODS

1079

Comparison of Single and Biplane Ventriculography for Determination of Left Ventricular Volume and Ejection Fraction

Walter C. Brogan, III, D. Brent Glamann, Richard A. Lange, and L. David Hillis

BRIEF REPORTS

1083

Marked Benefit with Sustained-Release Niacin Therapy in Patients with "Isolated" Very Low Levels of High-Density Lipoprotein Cholesterol and Coronary Artery Disease

Carl J. Lavie, Lois Mailander, and Richard V. Milani

1086**Effect of Restenosis After an Earlier Angioplasty at Another Coronary Site on the Frequency of Restenosis After a Subsequent Coronary Angioplasty**

Peter B. Berger, Malcolm R. Bell, David R. Holmes, Jr., LaVon Hammes, Jon L. Kosanke, and Stuart J. Bresee

1089**Effect of Activity on Circadian Variation in Time of Onset of Acute Myocardial Infarction**

John Zornosa, Martha Smith, and William Little

1091**Bronchocoronary Collateral Circulation in Patients with Three-Vessel Coronary Artery Disease and Normal Left Ventricular Function**

Simon Weber, Gérard Pasquier, Yves Martin-Bouyer, Marc Riquet, Philippe D'Athis, Lisa Naditch, and François Guerin

1092**Persistent Inappropriate Sinus Tachycardia After Radiofrequency Current Catheter Modification of the Atrioventricular Node**

Frederick A. Ehlert, Jeffrey J. Goldberger, Rodney Brooks, Scott Miller, and Alan H. Kadish

1095**Determinants of Impedance During Radiofrequency Catheter Ablation in Humans**

Mark Borganelli, Rafel El-Atassi, Angel Leon, Steven J. Kalbfleisch, Hugh Calkins, Fred Morady, and Jonathan J. Langberg

1098**Detection of Atrial Tachyarrhythmias by Transesophageal Pacing and Recording at Rest and During Exercise in Children with Ventricular Preexcitation**

Fabrizio Drago, Attilio Turchetta, Armando Calzolari, Paolo Guccione, Antonella Santilli, Emanuela Pompei, Pietro Ragonese, and Frank M. Galioto, Jr.

1100**Mono- Versus Double-Balloon Technique for Commissural Splitting After Percutaneous Mitral Valvotomy**

Antonio Fernández-Ortiz, Carlos Macaya, Fernando Alfonso, Rosana Hernández, Andrés Ifiguez, Javier Goicolea, Camino Bañuelos, and Pedro Zarco

1102**Role of Transesophageal Echocardiography in Diagnosis of Subaortic Aneurysm**

John Skoularigis, Ehud Deviri, Thomas Wisenbaugh, Rafique Essop, Shirley Middlemost, and Pinhas Sareli

1104**Menopause-Induced Changes in Doppler-Derived Parameters of Aortic Flow in Healthy Women**

Amos Pines, Enrique Z. Fisman, Yaacov Drory, Yoram Levo, Joseph Shemesh, Efraim Ben-Ari, and Daniel Ayalon

CASE REPORTS**1107****Use of Intracoronary Ultrasound to Identify the "True" Coronary Lumen in Chronic Coronary Dissection Treated with Intracoronary Stenting**

Thomas E. Schryver, Jeffrey J. Popma, Kenneth M. Kent, Martin B. Leon, Sharon Eldredge, and Gary S. Mintz

1109**Ocular Deformation After Long-Term Repeated Bulbar Compression for Termination of Paroxysmal Tachycardia**

Per I. Hoff, Svein Faerstrand, Ole-Jørgen Ohm

READERS' COMMENTS**1111****Calculation of Valve Area by the Gorlin Formula and Continuity Equation**

Dawod Sharif and Edward G. Abinader

Percutaneous Pulmonary Balloon Valvuloplasty in Adults

Wing-Hing Chow and Tsun-Cheung Chow

APRIL 30, 1992, VOL. 69, NO. 13**A SYMPOSIUM:****THE ROLE OF CALCIUM ANTAGONISTS IN HYPERTENSION****MAY 1, 1992, VOL. 69, NO. 14****CORONARY ARTERY DISEASE****1113****Importance of a Patent Infarct-Related Artery for Hospital and Late Survival After Direct Coronary Angioplasty for Acute Myocardial Infarction**

Bruce R. Brodie, Thomas D. Stuckey, Charles J. Hansen, Terry R. Cooper, Richard A. Weintraub, E. Joseph LeBauer, Jeffrey D. Katz, and Thomas A. Kelly

1120**Evaluation of a Prolonged Infusion of Recombinant Tissue-Type Plasminogen Activator (alteplase) in Preventing Reocclusion Following Successful Thrombolysis in Acute Myocardial Infarction**

John Kalbfleisch, Udho Thadani, Judith K. Littlejohn, Greg Brown, Raymond Magorien, Michael Kutcher, George Taylor, William T. Maddox, W. Barton Campbell, James Perry, Jr., James F. Spann, George Vetrovec, Richard Kent, and Paul W. Armstrong

1128**Differential Long-Term Impact of In-Hospital Symptoms of Psychological Stress After Non-Q-Wave and Q-Wave Acute Myocardial Infarction**

Nancy Frasure-Smith, François Lespérance, and Martin Juneau

1135**Prognosis of Acute Myocardial Infarction Complicated by Complete Heart Block (the Worcester Heart Attack Study)**

Robert J. Goldberg, Juan C. Zevallos, Jorge Yarzebski, Joseph S. Alpert, Joel M. Gore, Zuoyao Chen, and James E. Dalen

1143**Effect of Spinal Cord Stimulation on Regional Myocardial Perfusion Assessed by Positron Emission Tomography**

Christian De Landsheere, Clas Mannheimer, Alfons Habets, Marcel Guillaume, Ivan Bourgeois, Lars-Erik Augustinsson, Tore Eliasson, Daniel Lamotte, Henri Kulbertus, and Pierre Rigo

1150**Usefulness of Single-Photon Emission Computed Tomography of Thallium-201 Uptake After Dipyridamole Infusion for Detection of Coronary Artery Disease**

Maria A. Mendelson, Stewart M. Spies, William G. Spies, Pierre Abi-Mansour, and Dan J. Fintel

1156**Efficacy of a Single Dose of Slow-Release Isosorbide Dinitrate in the Treatment of Silent or Painful Myocardial Ischemia in Stable Angina Pectoris**

Jerzy P. Dubiel, Krzysztof W. Moczurad, and Leszek Bryniarski

1161**Comparison of Results of Percutaneous Transluminal Coronary Angioplasty With and Without Selective Requirement of Surgical Standby**

Andrés Iniguez, Carlos Macaya, Rosana Hernandez, Fernando Alfonso, Javier Goicolea, Jorge Casado, and Pedro Zarco

1166**Frequency and Prognostic Significance of Silent Coronary Artery Disease in Patients with Cerebral Ischemia Undergoing Carotid Endarterectomy**

Stefano Urbinati, Giuseppe Di Pasquale, Alvaro Andreoli, Anna Maria Lusa, Michele Ruffini, Giuseppe Lanzino, and Giuseppe Pinelli

1171**Coronary Vasodilatory Action of Elgodipine in Coronary Artery Disease**

Harry Suryapranata, Arthur Maas, Donald C. MacLeod, Pim J. de Feyter, Pieter D. Verdouw, and Patrick W. Serruys

ARRHYTHMIAS AND CONDUCTION DISTURBANCES**1178****Usefulness of Adenosine in Augmenting Ventricular Preexcitation for Noninvasive Localization of Accessory Pathways**

Todd J. Cohen, Kelly J. Tucker, Joseph A. Abbott, Elias H. Botvinick, Elyse Foster, Nelson B. Schiller, J. William O'Connell, and Melvin M. Scheinman

1186**Differences Between Predictive Characteristics of Signal-Averaged Electrocardiographic Variables for Postinfarction Sudden Death and Ventricular Tachycardia**

Olusola Odemuyiwa, Marek Malik, Jan Poloniecki, Thomas Farrell, Teri Milane, Piotr Kulakowski, Anne Staunton, Alexander Matthies, and A. John Camm

1193**Variations in Expression and Treatment of Transient Neurocardiogenic Instability**

Otto G. Thilenius, Karen J. Ryd, and Janet Husayni

SYSTEMIC HYPERTENSION**1196****Racial Differences in Left Ventricular Structure in Healthy Young Adults**

Alan L. Hinderliter, Kathleen C. Light, and Park W. Willis IV

1200**Comparison of the Effects of Isradipine and Lisinopril on Left Ventricular Structure and Function in Essential Hypertension**

Edith C. Bielen, Robert H. Fagard, Paul J. Lijnen, Tikma B. Tjandra-Maga, René Verbesselt, and Antoon K. Amery

CONGESTIVE HEART FAILURE**1207****Characteristics of Peak Aerobic Capacity in Symptomatic and Asymptomatic Subjects with Left Ventricular Dysfunction**

Chang-seng Liang, Douglas K. Stewart, Thierry H. LeJemtel, Philip C. Kirlin, Kevin M. McIntyre, H. Thomas Robertson, Robert Brown, Andrea W. Moore, Karen L. Wellington, Linda Cahill, Marie Galvao, Patricia A. Woods, Carlos Garces, and Peter Held, for the Studies of Left Ventricular Dysfunction (SOLVD) Investigators

1212**Long-Term Outcome in Patients with Congestive Heart Failure and Intact Systolic Left Ventricular Performance**

John F. Setaro, Robert Soufer, Michael S. Remetz, Robin A. Perlmutter, and Barry L. Zaret

CARDIOMYOPATHY**1217****Degree of Left Ventricular Hypertrophy in Patients with Hypertrophic Cardiomyopathy and Chronic Atrial Fibrillation**

Paolo Spirito, Edward Lakatos, and Barry J. Maron

METHODS**1223****Measurement of Right Ventricular Mass in Normal and Dilated Cardiomyopathic Ventricles Using Cine Magnetic Resonance Imaging**

Neil E. Doherty III, Naoya Fujita, Gary R. Caputo, and Charles B. Higgins

EDITORIALS**1229****Comparative Clinical Consequences of Aggressive Lipid Management, Coronary Angioplasty and Bypass Surgery in Coronary Artery Disease**

Robert A. Vogel

BRIEF REPORTS**1234****Potential Limitations of Percutaneous Transluminal Coronary Angioplasty in Heart Transplant Recipients**

Jasvinder S. Sandhu, Barry F. Uretsky, P. Sudhakar Reddy, Bart G. Denys, Robert J. Ruffner, Warren M. Breisblatt, Tony R. Zerbe, Robert L. Kormos, John M. Armitage, Robert L. Hardesty, and Bartley P. Griffith

1237**Immediate Procedural and Long-Term Clinical Results of Internal Mammary Artery Angioplasty**

Jeffrey J. Popma, Richard H. Cooke, Martin B. Leon, Karen Stark, Lowell F. Satler, Kenneth M. Kent, Donna Hunn, and Augusto D. Pichard

1239**Value of Ventilation/Perfusion Scans Versus Perfusion Scans Alone in Acute Pulmonary Embolism**

Paul D. Stein, Michael L. Terrin, Alexander Gottschalk, Abass Alavi, and Jerald W. Henry

1241**Comparison of Procedural Results and Risks of Coronary Angioplasty in Men and Women for Conditions Other Than Acute Myocardial Infarction**

Joel K. Kahn, Barry D. Rutherford, David R. McConahay, Warren L. Johnson, Lee V. Giorgi, Thomas M. Shimshak, Robert W. Ligon, and Geoffrey O. Hartzler

1243**Usefulness of Silent Subendocardial Ischemia Detected by ST-Segment Depression in Postmyocardial Infarction Patients as a Predictor of Ventricular Arrhythmias**

Ana Maria Camacho, Josep Guindo, and Antonio Bayés-de-Luna

1245**Operational Definition of Normal Sinus Heart Rate**

David H. Spodick, Padma Raju, Richard L. Bishop, and Robert D. Rifkin

1247**Location of Accessory Tracts in Concealed Preexcitation by Atrial Phase Analysis of Radionuclide Ventriculography During Induced Supraventricular Tachycardia**

Patricio E. González, Rodolfo F. Oyarzún, Mario O. Ortiz, René G. Asenjo, Ricardo G. Lillo, Teresa V. Massardo, Ivonne M. Aramburú, and Horst B. Kandora

1249**Initial Results of Peripheral Vascular Angioplasty Performed by Experienced Interventional Cardiologists**

Christopher J. White, Stephen R. Ramee, Tyrone J. Collins, C. Daniel Procter, and Larry H. Hollier

MAY 7, 1992, VOL. 69, NO. 15

A SYMPOSIUM:**BEYOND THE BALLOON: COMPLEX ANGIOPLASTY FOR THE PRACTITIONER**

MAY 15, 1992, VOL. 69, NO. 16

CORONARY ARTERY DISEASE

1251**Predictive Value of Apolipoproteins in a Prospective Survey of Coronary Artery Disease in Men**

Gunnar Sigurdsson, Asdis Baldursdottir, Helgi Sigvaldason, Uggj Agnarsson, Gudmundur Thorgerisson, and Nikulas Sigfusson

1255**Increased IgM-Anticardiolipin Antibodies in Patients with Restenosis After Percutaneous Transluminal Coronary Angioplasty**

Bernd Eber, Martin Schumacher, Piet Auer-Grumbach, Hermann Toplak, and Werner Klein

1259**Safety and Clinical Use of Exercise Testing One to Three Days After Percutaneous Transluminal Coronary Angioplasty**

Gary J. Balady, Mark L. Leitschuh, Alice K. Jacobs, Denise Merrell, Donald A. Weiner, and Thomas J. Ryan

1265**Transthoracic High-Frequency Two-Dimensional Echocardiography, Doppler and Color Flow Mapping to Determine Anatomy and Blood Flow Patterns in the Distal Left Anterior Descending Coronary Artery**

Antoinette Kenny and Leonard M. Shapiro

1269**Accuracy of Dobutamine Stress Echocardiography in Detecting Coronary Artery Disease**

Pamela A. Marcovitz and William F. Armstrong

1274**Comparison of the Clinical Profile and Outcome of Women and Men in Cardiac Rehabilitation**

Lauralyn B. Cannistra, Gary J. Balady, Carol J. O'Malley, Donald A. Weiner, and Thomas J. Ryan

1280**Usefulness of Dipyridamole-Thallium Scanning for Preoperative Evaluation of Cardiac Risk for Nonvascular Surgery**

Christopher M. Coley, Terry S. Field, Stephen A. Abraham, Charles A. Boucher, and Kim A. Eagle

1286**Quantitative Angiographic and Statistical Methods to Assess Serial Changes in Coronary Luminal Diameter and Implications for Atherosclerosis Regression Trials**

C. Michael Gibson, Tamas Sandor, Peter H. Stone, Richard C. Pasternak, Bernard Rosner, and Frank M. Sacks

1291**Characterization of Acute Myocardial Infarction by Magnetic Resonance Imaging**

Donald L. Johnston, Richard E. Wendt III, Sharon L. Mulvagh, and Howard Rubin

ARRHYTHMIAS AND CONDUCTION DISTURBANCES

1296**Reproducibility of Electrophysiologic Testing During Antiarrhythmic Therapy for Ventricular Arrhythmias Secondary to Coronary Artery Disease**

Kevin J. Ferrick, Joshua Luce, Sara Miller, Anthony D. Mercado, Soo G. Kim, James A. Roth, and John D. Fisher

1300**Reproducibility of Isoproterenol Tilt-Table Tests in Patients with Syncope**

Robert Sheldon, Jan Splawinski, and Shawn Killam

CONGESTIVE HEART FAILURE

1306**Maintenance of Forearm Vasodilator Action of Atrial Natriuretic Factor in Congestive Heart Failure Secondary to Ischemic or Idiopathic Dilated Cardiomyopathy**

Spencer H. Kubo, Steven A. Atlas, John H. Laragh, and Robert J. Cody

VALVULAR HEART DISEASE

1310

Single-Plane Transesophageal Echocardiography for Assessing Function of Mechanical or Bioprosthetic Valves in the Aortic Valve Position

Dean G. Karalis, Krishnaswamy Chandrasekaran, John J. Ross Jr., Alan Micklin, Bruce M. Brown, Jian-Fang Ren, and Gary S. Mintz

CONGENITAL HEART DISEASE

1316

Risk of Patent Foramen Ovale for Thromboembolic Events in All Age Groups

Mark A. de Belder, Leftiris Tourikis, Graham Leech, and A. John Camm

1321

Minimally Invasive Management of Transposition of the Great Arteries in the Newborn Period

Cameron J. B. Ward, Richard E. Hawker, Stephen G. Cooper, David Brieger, Graham Nunn, Timothy B. Cartmill, John M. Celermajer, and Gary F. Sholler

1325

Decreased Plasma Atrial Peptide Response to Volume-Overloading Maneuvers and Exercise After Atrial Pulmonary Anastomosis of Fontan

Hélène Perrault, Joaquim Miró, André Davignon, Mireille Béland, Beth Armstrong, Gaétan Thibault, Marc Cantin, and Claude Chartrand

MISCELLANEOUS

1329

Major Electrocardiographic Abnormalities in Persons Aged 65 Years and Older (the Cardiovascular Health Study)

Curt D. Furberg, Teri A. Manolio, Bruce M. Psaty, Diane E. Bild, Nemat O. Borhani, Anne Newman, Bernard Tabatznik, and Pentti M. Rautaharju for the Cardiovascular Health Study Collaborative Research Group

1336

Normalization of Upright Exercise Hemodynamics and Improved Exercise Capacity One Year After Orthotopic Cardiac Transplantation

László Rudas, Peter W. Pflugfelder, F. Neil McKenzie, Alan H. Menkis, Richard J. Novick, and William J. Kostuk

1340

Dependency of Arterial Compliance on Circulating Neuroendocrine and Metabolic Factors in Normal Subjects

Joel M. Neutel, David H. G. Smith, William F. Graettinger, and Michael A. Weber

1345

Slope of the End-Systolic Pressure-Volume Relation Derived from Single Beat Analysis Is Not Always Sensitive to Positive Inotropic Stimuli in Humans

Tomoyuki Iwase, Tetsuya Tomita, Shinji Miki, Kunihiro Nagai, and Tomoyuki Murakami

METHODS

1354

Validity of Cardiac Output Measurement by Computer-Averaged Impedance Cardiography, and Comparison with Simultaneous Thermodilution Determinations

Brian R. Pickett and James C. Buell

EDITORIALS

1359

Time for a Prospective, Randomized Trial of the "Open Artery Hypothesis" in Survivors of Acute Myocardial Infarction

L. David Hillis and Richard A. Lange

BRIEF REPORTS

1361

Detection of Complex Intimal Flaps in Aortic Dissection by Transesophageal Echocardiography

John K. Lourie, Alan Appelbe, and Randolph P. Martin

1363

Clinical Features and Management of Young Patients with Cardiac Inhibitory Response During Orthostatic Testing

Paul Osizlok, Mary Allen, Michael Griffin, and Paul Gillette

1365

Cause and Impact of Pulmonary Hypertension in Isolated Aortic Stenosis on Operative Mortality for Aortic Valve Replacement in Men

Jayashri R. Aragam, Edward D. Folland, Diane Lapsley, Satish Sharma, Shukri F. Khuri, and G. V. R. K. Sharma

1367

Clinical Evaluation of Observations in Poorly Contracting and Nondilated Left Ventricles (Nondilated Cardiomyopathy)

Hiroaki Kurozumi, Masanori Hayakawa, Teishi Kajiya, Kojiro Awano, Takayoshi Azumi, Tetsuya Inatome, Tsutomu Inoh, and Hisashi Fukuzaki

1370

Increased Atrial Natriuretic Factor Response to Exercise After Coarctation Repair

Robert D. Ross, Sandra K. Clapp, Stephen Gunther, Stephen M. Paridon, Richard A. Humes, Zia Q. Farooki, and William W. Pinsky

CASE REPORTS

1373

Intravenous Administration of Monoclonal Antibody to the Platelet GP IIb/IIIa Receptor to Treat Abrupt Closure During Coronary Angioplasty

H. Vernon Anderson, Madaiah Revana, Oscar Rosales, Laura Brannigan, Yvonne Stuart, Harlan Weisman, and James T. Willerson

READERS' COMMENTS

1377

Calibration Using Angiographic Catheters as Scaling Devices — Importance of Filming the Catheters Not Filled with Contrast Medium

Carlo Di Mario, Walter R.M. Hermans, Benno J. Rensing, and Patrick W. Serruys

CORONARY ARTERY DISEASE

1379

Frequency and Outcome of Chest Pain After Two New Coronary Interventions (Atherectomy and Stenting)

Michael Mansour, Joseph P. Carrozza, Jr., Richard E. Kuntz, Robert F. Fishman, Richard M. Pomerantz, Cynthia C. Senerchia, Robert D. Safian, Daniel J. Diver, and Donald S. Baim

1383

A Patency-Oriented Strategy for Early Management of Acute Myocardial Infarction Using Emergency Coronary Angiography and Selective Coronary Angioplasty

Jean-Michel Juliard, P. Gabriel Steg, Dominique Himbert, Alain Cohen-Solal, Marie-Claude Aumont, and René Gourgou

1389

Safety of Combined Intravenous Beta-Adrenergic Blockade (Atenolol or Metoprolol) and Thrombolytic Therapy in Acute Myocardial Infarction

Belinda K. W. Green, Gary D. Gordon, Adrian R. Horak, Robert N. Scott Millar, and Patrick J. Commerford

1393

Effectiveness and Safety of a Single Intravenous Bolus Injection of Tissue-Type Plasminogen Activator in Acute Myocardial Infarction

David Hackett, Felicita Andreotti, Agha W. Haider, Claudio Brunelli, Manjit Shahi, Anne Fussell, Nigel Buller, Rodney Foale, David Lipkin, Salvatore Caponnetto, Graham Davies, and Attilio Maseri, and the Bolus Dose-Escalation Study of Tissue-Type Plasminogen Activator (BEST) Investigators

1399

Beneficial Effect of Amiodarone on Cardiac Mortality in Patients with Asymptomatic Complex Ventricular Arrhythmias After Acute Myocardial Infarction and Preserved But Not Impaired Left Ventricular Function

Matthias Pfisterer, Wolfgang Kiowski, Dieter Burckhardt, Ferenc Follath, and Felix Burkart

1403

Incidence and Timing of Recurrences of Sudden Death and Ventricular Tachycardia During Antiarrhythmic Drug Treatment After Myocardial Infarction

Luz Maria Rodriguez, Joep Smeets, Gilles E. O'Hara, Peter Geelen, Pedro Brugada, and Hein J. J. Wellens

1407

Usefulness of Pirenzepine, an M₁ Antimuscarinic Agent, for Effort Myocardial Ischemia

Paolo Marraccini, Enrico Orsini, Guido Nassi, Claudio Michelassi, and Antonio L'Abbate

1412

Simultaneous Transesophageal Two-Dimensional Echocardiography and Atrial Pacing for Detecting Coronary Artery Disease

Otto Kamp, Carel C. de Cock, Albert J. Funke Küpper, Jan P. Roos, and Cees A. Visser

1417

Outcome After Prolonged Balloon Inflations of >20 Minutes for Initially Unsuccessful Percutaneous Transluminal Coronary Angioplasty

John D. Jackman, Jr., James P. Zidar, James E. Tcheng, Amy B. Overman, Harry R. Phillips, and Richard S. Stack

1422

Referral Patterns and Exercise Response in the Rehabilitation of Female Coronary Patients Aged ≥ 62 Years

Philip A. Ades, Mary L. Waldmann, Donna M. Polk, and Janice T. Coflesky

1426

Amount of Exercise Necessary for the Patient with Coronary Artery Disease

Barry A. Franklin, Seymour Gordon, and Gerald C. Timmis

ARRHYTHMIAS AND CONDUCTION DISTURBANCES

1433

Effect of Direct, Reflex and Exercise-Provoked Increases in Sympathetic Tone on Idiopathic Ventricular Tachycardia

Michael G. Kienzle, James B. Martins, Luis Constantin, and Ann Aschoff

SYSTEMIC HYPERTENSION

1439

Left Ventricular Function After Reversal of Myocardial Hypertrophy in Systemic Hypertension, and Response to Acute Increase of Afterload by Cold Pressor Test

Anna Maria Grandi, Achille Venco, Andrea Bertolini, Paolo Pantaleo, Daniela Corbellini, Guido Perani, Pietro Folino, Giuseppe Gobbi, and Giorgio Finardi

VALVULAR HEART DISEASE

1442

Preoperative Diagnosis of Coronary Artery Disease in Patients with Valvular Heart Disease Using Technetium-99m Isonitrite Tomographic Imaging Together with High-Dose Dipyridamole and Handgrip Exercise

Raimo Kettunen, Heikki V. Huikuri, Juhani Heikkilä, and Juha T. Takkenen

CARDIOMYOPATHY

1446

Frequency of Magnetic Resonance Signal Abnormalities of the Brain in Patients Aged <50 Years with Idiopathic Dilated Cardiomyopathy

Johann Düsleag, Werner Klein, Bernd Eber, Robert Gasser, Helmut Brussee, Brigitte Rotman, and Manfred Grisold

1451

Ventricular Arrhythmias in Dilated Cardiomyopathy as an Independent Prognostic Hallmark

Renata De Maria, Antonello Gavazzi, Angelo Caroli, Renato Ometto, Andrea Biagini, and Fulvio Camerini, on behalf of the Italian Multicenter Cardiomyopathy Study (SPIC) Group

1458

Prevalence and Etiology of Idiopathic Dilated Cardiomyopathy (Summary of a National Heart, Lung, and Blood Institute Workshop)

Teri A. Manolio, Kenneth L. Baughman, Richard Rodeheffer, Thomas A. Pearson, J. David Bristow, Virginia V. Michels, Walter H. Abelmann, and William R. Harlan

CONGENITAL HEART DISEASE

1467**Clinical Impact of Balloon Angioplasty for Branch Pulmonary Arterial Stenosis**

Martin C. K. Hosking, Constantin Thomaidis, Robert Hamilton, Patricia E. Burrows, Robert M. Freedom, and Lee N. Benson

1471**Outcome of Prenatally Detected Cardiac Malformations**

John F. Smythe, Joshua A. Copel, and Charles S. Kleinman

MISCELLANEOUS

1475**Cardiac Characteristics and Postoperative Courses in Cushing's Syndrome**

Norihiko Sugihara, Masami Shimizu, Yoshihito Kita, Kuniyoshi Shimizu, Hidekazu Ino, Isamu Miyamori, Hajime Nakabayashi, and Ryoyu Takeda

BRIEF REPORTS

1481**Effect of Balloon Material on Coronary Angioplasty**

Michael R. Mooney, Jodi Fishman Mooney, Terrence F. Longe, and Robert O. Brandenburg, Jr.

1483**Extent and Severity of Abnormal Left Ventricular Wall Motion Detected by Exercise Echocardiography During Painful and Silent Ischemia**

Thomas H. Marwick, James J. Nemec, Julius Torelli, Ernesto E. Salcedo, and William J. Stewart

1484**Clinical Significance of Abrupt Vasodepression During Dobutamine Stress Echocardiography**

Peter K. Mazeika, Aleksander Nadazdin, and Celia M. Oakley

1487**Evaluation of Coronary Artery Disease in the Hunter Syndrome by Angiography**

Elizabeth A. Braunlin, David W. Hunter, William Krivit, Barbara A. Burke, Peter S. Hesslein, Priscilla T. Porter, and Chester B. Whitley

1489**Frequency of Isolated Panic Attacks and Panic Disorder in Patients with the Mitral Valve Prolapse Syndrome**

Martin A. Alpert, Mohebat Sabeti, Matt G. Kushner, Bernard D. Beitman, Johnna L. Russell, Jeffrey R. Thiele, and Vaskar Mukerji

1491**Atypical Systolic Clicks Produced by Prolapsing Mitral Valve Masses**

Alan J. Bank, Scott W. Sharkey, Steven R. Goldsmith, David M. Salerno, and Richard W. Asinger, with the technical assistance of Lillian Michaud

1495**Transesophageal Versus Transthoracic Echocardiography for Diagnosing Mitral Valve Perforation**

David G. Cziner, Barry P. Rosenzweig, Edward S. Katz, Andrew M. Keller, Werner G. Daniel, and Itzhak Kronzon

1497**Abnormal Blood Rheology in Idiopathic Dilated Cardiomyopathy**

Peter Siostrzonek, Renate Koppensteiner, Gerhard Kreiner, Christian Madl, Heinz David Gössinger, Gottfried Heinz, Andreas Stümpflen, Brigitta Wendelin, Herbert Mössbacher, and Herbert Ehringer

1499**Left Ventricular Shape in Idiopathic Dilated Cardiomyopathy and Cardiomyopathy With or Without Only Mild Ventricular Dilatation**

Ivan A. D'Cruz, Dale P. Daly, and R. Chris Hand

1502**Usefulness of the Electrocardiogram and Echocardiogram in Predicting the Amount of Interstitial Myocardial Collagen in Endomyocardial Biopsy Specimens of Patients with Chronic Heart Failure**

Jamshid Shirani, Ruth Pick, Yuqiu Guo, and Marc A. Silver

1504**Intravascular Ultrasound Imaging of Guenther Vena Caval Filters**

Ronald Karnik, Walther B. Winkler, Andreas Valentin, Michael Urban, and Jörg Slany

1506**Maternal Left Ventricular Performance During Bicycle Exercise**

Jean-Claude Veille, Herman K. Hellerstein, and Anthony E. Bacevice, Jr., with the technical assistance of Jim Janos

1508**Usefulness of Dynamic Hand Exercise for Developing Maximal Separation of Left and Right Ventricular Pressures at End-Diastole and Usefulness in Distinguishing Restrictive Cardiomyopathy from Constrictive Pericardial Disease**

Christine M. Gasperetti, Ian J. Sarembock, and Marc D. Feldman

CASE REPORTS

1512**Acute Myocardial Infarction Triggered by Emotional Stress**

Mark D. Gelernt and Judith S. Hochman

1513**Origin of the Right Coronary Artery from the Pulmonary Trunk**

Vembar V. Sreenivasan and Mark D. Jacobstein

READERS' COMMENTS

1515**Richard Lower: Complete Physician — Scientist-Pericardiologist**

David H. Spodick

JUNE 4, 1992, VOL. 69, NO. 18

A SYMPOSIUM: MANAGEMENT OF HEART FAILURE IN THE 1990'S: A REASSESSMENT OF THE ROLE OF DIGOXIN THERAPY

CORONARY ARTERY DISEASE

1517

Mechanism of Exercise-Induced Hypotension in Coronary Artery Disease

Abdulmassih S. Iskandrian, Jeffrey G. Kegel, Joseph Lemlek, Jaekyeong Heo, Virginia Cave, and Basil Iskandrian

1521

Frequency and Predictors of Left Ventricular Segmental Dysfunction in Patients with Recent Rest Angina

Mark F. Warner, Germano DiSciascio, Ravinder Kohli, M. Nagui Sabri, Evelyne Goudreau, Michael J. Cowley, and George W. Vetrovec

1525

Acute and Long-Term Effects on Myocardial Ischemia of Intermittent and Continuous Transdermal Nitrate Therapy in Stable Angina

M. Juhani Knuuti, Martine Wahl, Ingela Wiklund, Paul Smith, Liisa Alhainen, Risto Härkönen, Pekka Puska, and Dan Tzivoni

1533

Immediate and Follow-Up Results of the Conservative Coronary Angioplasty Strategy for Unstable Angina Pectoris

Francis Stammen, Ivan De Scheerder, James J. Glazier, Johan Van Lierde, Matty Vrolix, Jos L. Willems, Hilaire De Geest, and Jan Piessens

1538

Echocardiographic Algorithms for Admission and PredischARGE Prediction of Mortality in Acute Myocardial Infarction

Jens Berning, Jeppe Launbjerg, and Merete Appleyard

1545

Electrocardiographic Criteria for Diagnosis of Acute Myocardial Infarction in Childhood

Jeffrey A. Towbin, J. Timothy Bricker, and Arthur Garson, Jr.

1549

Frequency of Coronary Artery Disease and Left Ventricular Dysfunction in Cocaine Users

Anil Om, Mark Warner, Nagui Sabri, Laura Cecich, and George Vetrovec

1553

Preoperative Coronary Artery Disease Risk Stratification Based on Dipyridamole Imaging and a Simple Three-Step, Three-Segment Model for Patients Undergoing Noncardiac Vascular Surgery or Major General Surgery

Jean Lette, David Waters, Michel Cerino, Michel Picard, Patrick Champagne, and Jacques Lapointe

SYSTEMIC HYPERTENSION

1559

Effects of Sustained-Release Nicardipine on Regression of Left Ventricular Hypertrophy in Systemic Hypertension

Howard C. Dittrich, Joshua Adler, James Ong, Martha Reitman, Michael Weber, and Michael Ziegler

CONGESTIVE HEART FAILURE

1565

Anaerobic Threshold Detection in Patients with Congestive Heart Failure

Stuart D. Katz, Robert Berkowitz, and Thierry H. LeJemtel

1570

Left Ventricular Dysfunction Due to Atrial Fibrillation in Patients Initially Believed to Have Idiopathic Dilated Cardiomyopathy

Martha Grogan, Hugh C. Smith, Bernard J. Gersh, and Douglas L. Wood

1574

Myocardial Adenine Nucleotide Concentrations and Myocardial Norepinephrine Content in Patients with Heart Failure Secondary to Idiopathic Dilated or Ischemic Cardiomyopathy

Vera Regitz and Eckart Fleck

1581

Use of Limb Movement Sensors as Indicators of the Level of Everyday Physical Activity in Chronic Congestive Heart Failure

Simon W. Davies, Sally L. Jordan, and David P. Lipkin

1587

Effect of Quinapril on Blood Pressure and Heart Rate in Congestive Heart Failure

Jonathan N. Townend, John N. West, Michael K. Davies, and William A. Littler

1591

Effectiveness of Preload Reserve as a Determinant of Clinical Status in Patients with Left Ventricular Systolic Dysfunction

Marvin A. Konstam, Marvin W. Kronenberg, James E. Udelson, Debra Kinan, Jeanne Metherall, Noreen Dolan, Tonya Edens, Donna Howe, Lori Kilcoyne, Claude Benedict, Marston Youngblood, Joan Barrett, Salim Yusuf, for the SOLVD Investigators

1596

Endothelial Function in Chronic Congestive Heart Failure

Helmuth Drexler, Daniel Hayoz, Thomas Münzel, Burckhardt Hornig, Hanjörg Just, Hans R. Brunner, and Robert Zelis

VALVULAR HEART DISEASE

1602

Long-Term (9 to 33 Months) Echocardiographic Follow-up After Successful Percutaneous Mitral Commissurotomy

Alessandro Desideri, Olivier Vanderperren, Antonio Serra, Pascal Barraud, Robert Petitclerc, Jacques Lespérance, Ihor Dyda, Jacques Crépeau, and Raoul Bonan

1607

Methodologic Issues in Clinical Evaluation of Stenosis Severity in Adults Undergoing Aortic or Mitral Balloon Valvuloplasty

Catherine M. Otto, Kathryn B. Davis, David R. Holmes, Jr, William O'Neill, James Ferguson, Thomas M. Bashore, and Raoul Bonan

CARDIOMYOPATHY

1617**Predictors of Exercise Benefit After Operative Relief of Left Ventricular Outflow Obstruction by the Myotomy-Myectomy Procedure in Hypertrophic Cardiomyopathy**

Jean G. Diodati, William H. Schenke, Myron A. Wacławiw, Charles L. McIntosh, and Richard O. Cannon III

1623**Doppler Echocardiographic Assessment of the Pressure Gradient During Bicycle Ergometry in Hypertrophic Cardiomyopathy**

Ehud Schwammenthal, Bodo Schwartzkopff, Michael Block, Jan Johns, Benno Lösse, Rolf Engberding, Martin Borggreffe, and Günter Breithardt

MISCELLANEOUS

1629**Impairment of Left Ventricular Diastolic Function in Systemic Lupus Erythematosus**

Zion Sasson, Yosef Rasooly, Chung Wai Chow, Shane Marshall, and Murray B. Urowitz

METHODS

1635**Observations of Coronary Flow Augmentation and Balloon Function During Intraaortic Balloon Counterpulsation Using Transesophageal Echocardiography**

Edward S. Katz, Paul A. Tunick, and Itzhak Kronzon

EDITORIALS

1640**Excimer Coronary Laser Angioplasty: It's Time for a Critical Evaluation**

Garrett Lee and Dean T. Mason

1643**Syndromes X: Two Too Many**

Norman M. Kaplan

FROM THE EDITOR

1645**Editorial Board Meeting of The American Journal of Cardiology on 14 April 1992**

William C. Roberts

THIS PERIODICAL MAY BE COPYRIGHTED, IN
WHICH CASE THE CONTENTS REMAIN THE PROPERTY
OF THE COPYRIGHT OWNER. THE MICROFORM
EDITION IS REPRODUCED BY AGREEMENT WITH
THE PUBLISHER. DUPLICATION OR RESALE WITHOUT
PERMISSION IS PROHIBITED.

UNIVERSITY MICROFILMS INTERNATIONAL,
ANN ARBOR, MICHIGAN